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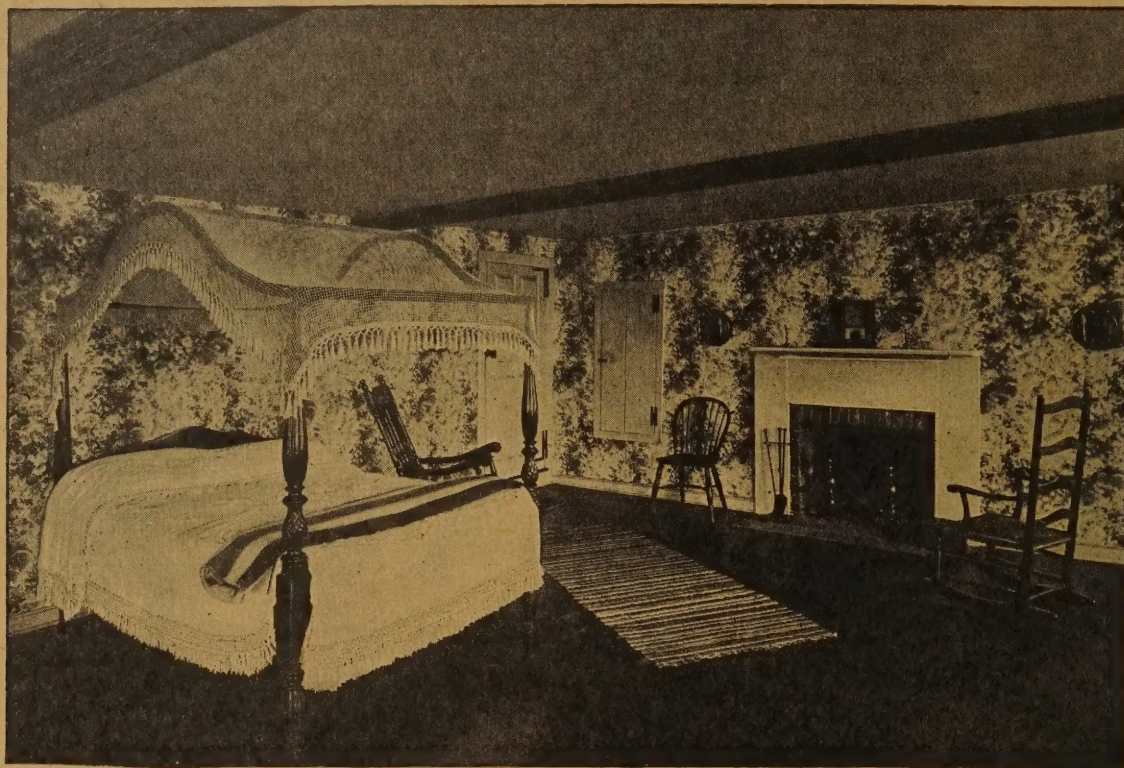
THE AMERICAN ARCHITECT

HUDSON RIVER BRIDGE



AN ARCHITECTURAL RAMBLE IN DELAWARE,
CARL A. ZIEGLER, A. I. A. ~ ROADSIDE JOTTINGS, SAMUEL CHAMBERLAIN ~ MODERN-
IZING AN OLD HOUSE ~ BRIDGE DESIGN AS INFLUENCED BY ARCHITECTURE ~ EXTRACTS
FROM UNDERWRITERS' REPORT ON SHERRY-NETHERLAND HOTEL SCAFFOLDING
FIRE ~ TOPICAL ARCHITECTURE ~ ILLUSTRATIONS OF VARIOUS TYPES OF BUILDINGS

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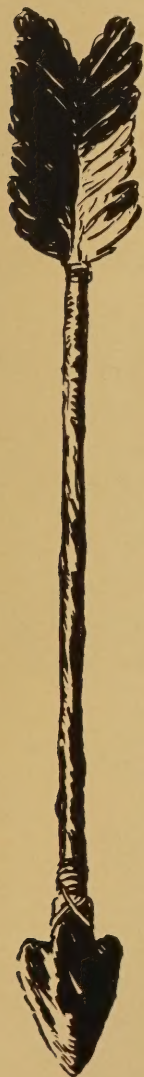
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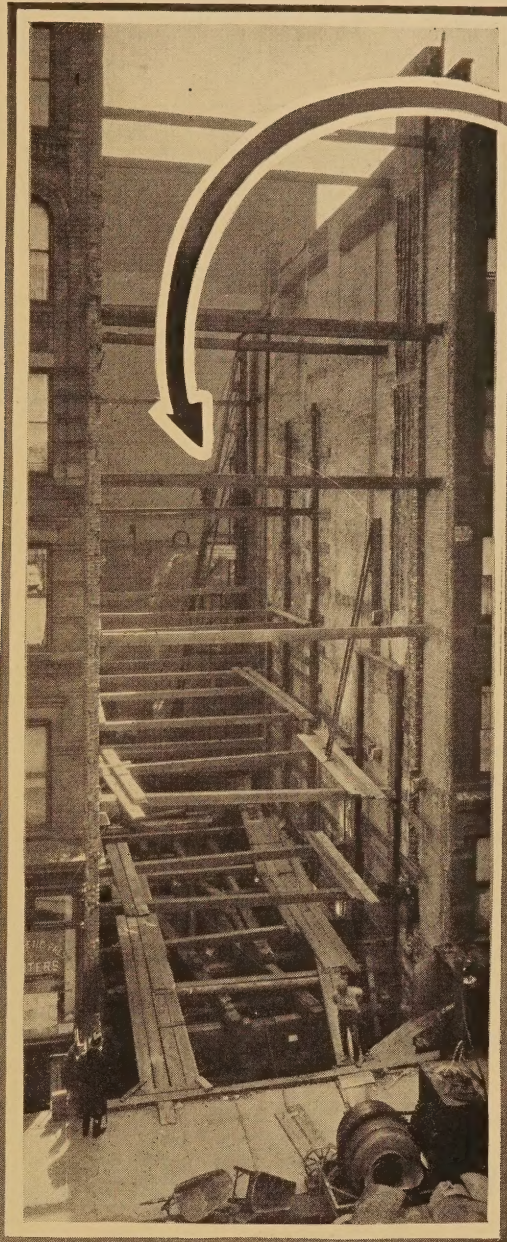
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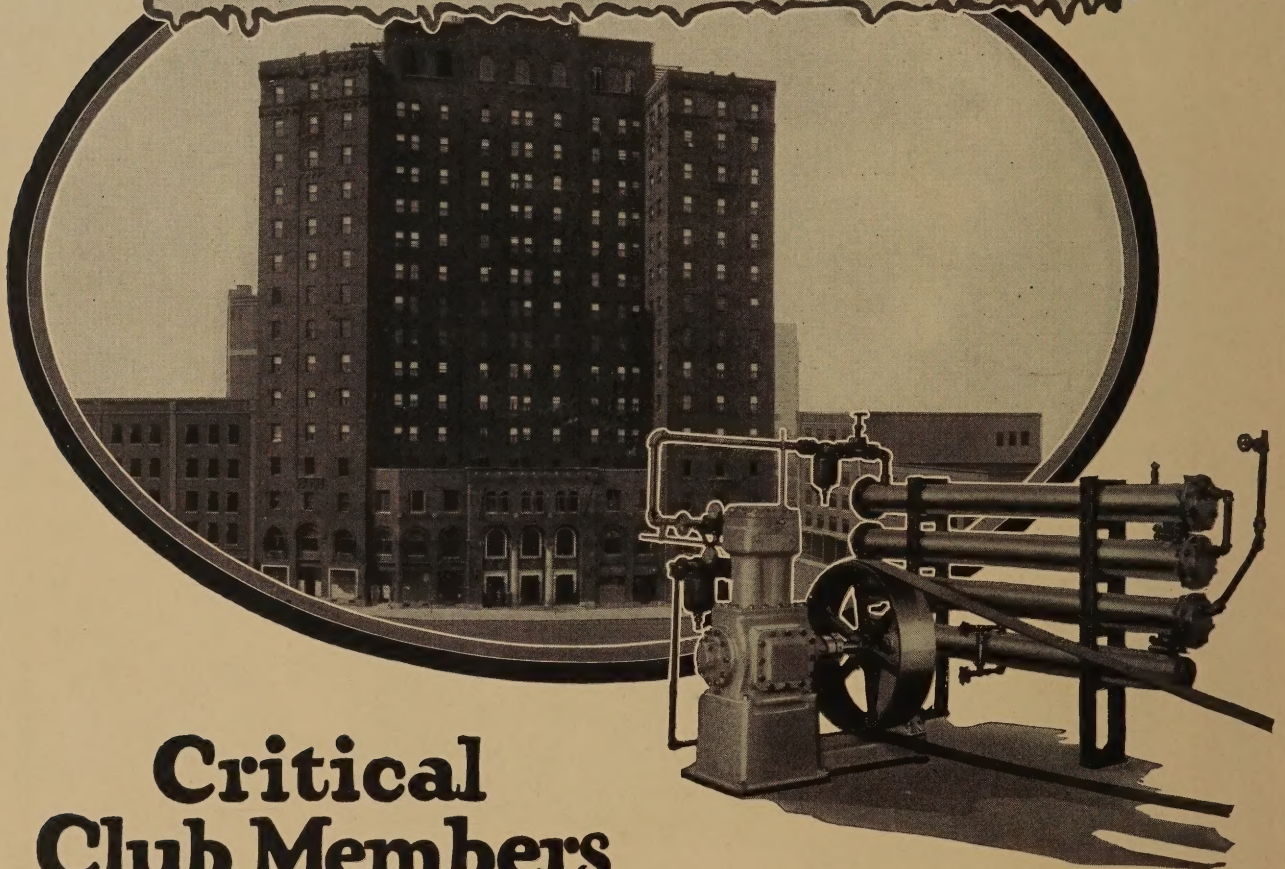
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THE AMERICAN ARCHITECT

WITH WHICH IS CONSOLIDATED THE ARCHITECTURAL REVIEW

VOLUME CXXXI

JUNE 20, 1927

NUMBER 2523

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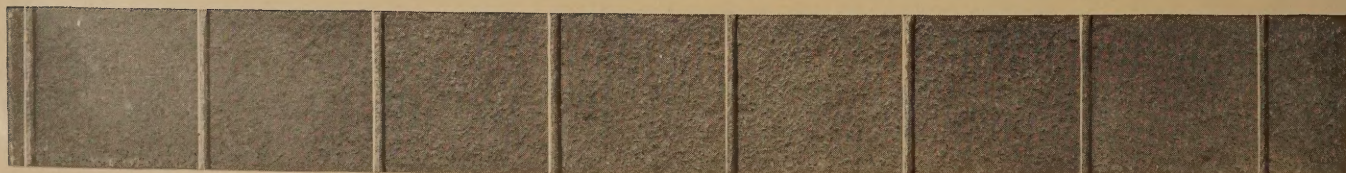
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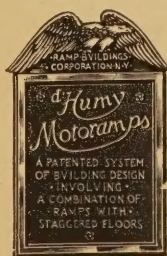
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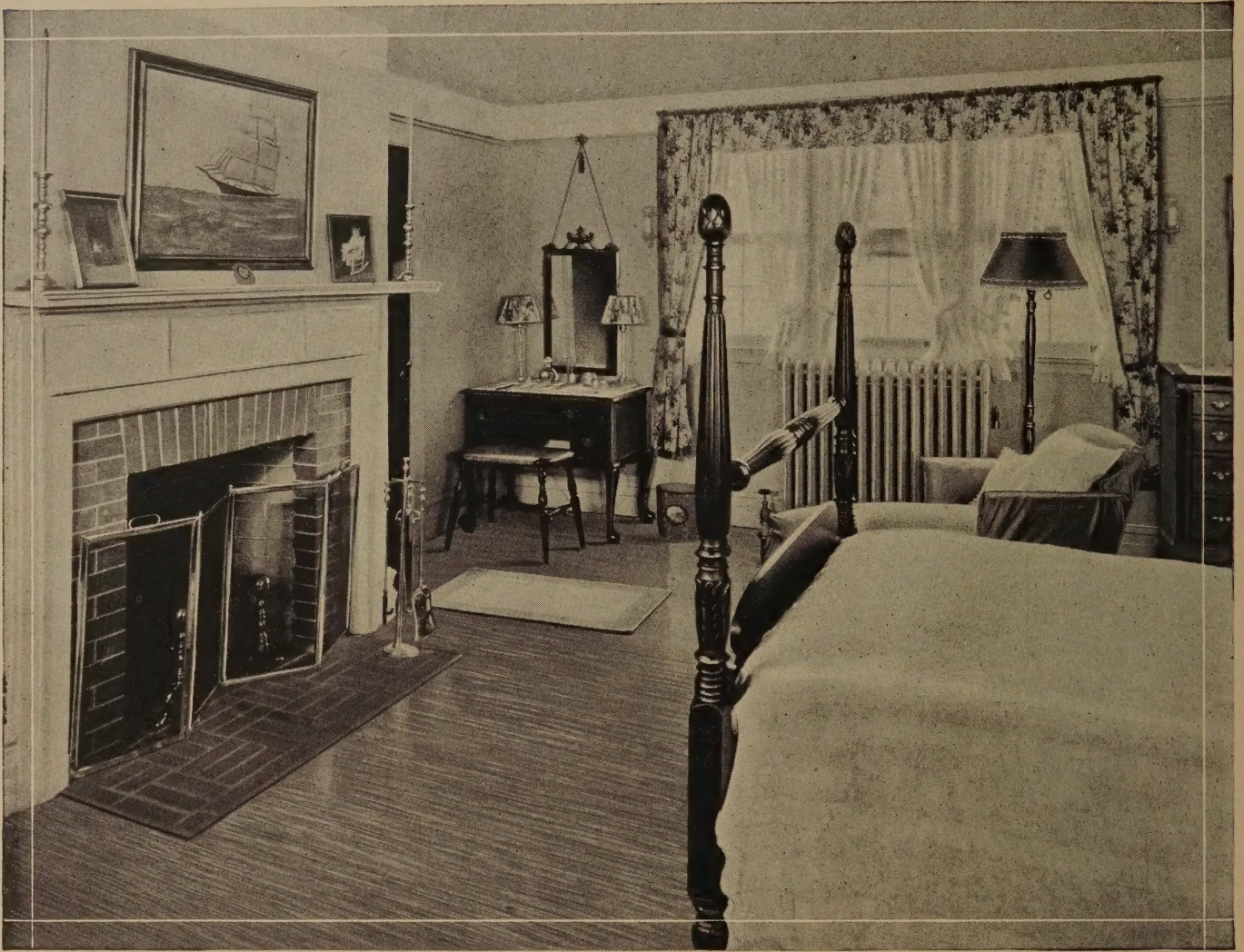
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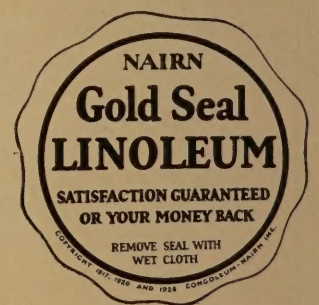
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THE PUBLISHERS' PAGE

BELIEVING that inspection and supervision in building construction should be as thorough as complete knowledge can make it, we are going to present, during the next few months, articles, by experts, on the inspection of heating systems and the supervision of brickwork and frame construction.

Oil burning equipment and its correct installation are now of considerable interest to architects. There are many and widely varied opinions on this subject as to the desirability of the introduction of fuel oil in different types of buildings. Two, and perhaps more, articles are now in preparation for early presentation. One will treat of fuel oil burners as applied to domestic use; the other, oil burning equipment as used in commercial structures. These articles will present the last word as applied to what is a comparatively new utility.

Ranging from heat to cold, from fuel oil burning to electrical refrigeration, is to go from one extreme to another. The rapid development of methods of electrical refrigeration is the transition from what at the outset was an interesting scientific experiment to a practical utility. Architects will find a further problem in planning for these comparatively new things. The articles that have been prepared on the subject of electrical refrigeration and that will in due course be presented in *THE AMERICAN ARCHITECT*, will be practical as a rule and guide to this important matter.

Craftsmanship in this country is passing through a period of its highest development. The proposed action of The American Institute of Architects will, it is believed, serve to elevate craftsmanship to a higher plane than ever before. Important developments are taking place and this progress is largely due to effort on the part of craftsmen to meet the demands of architects. Architectural ornament in bronze has been largely confined to the casting process. A new method has now been brought to a high state of perfection and the details of the work and examples of finished results will be described and illustrated in future issues.

Another novelty in craftsmanship is known as relief glass. This, in reality, is cast glass moulded in a way that is capable of producing desirable artistic effects of color and texture, light and shade. This glass will be found to have unusual decorative possibilities and is extremely valuable in many phases of interior decoration. An article descriptive of this material will shortly appear.

An informative article soon to appear will be presented under the title "A Vacation from City Architecture." It will deal with log houses, "summer camps" and all those varied and hap-hazard structures that are built at recreational localities to serve a temporary purpose. There's a growing tendency to create a better type of building both as to exterior and interior. Some interesting examples

will provide the illustrations for an article that will be of considerable practical value.

With the next issue we start on our 132nd volume. These records of architectural growth in the United States cover approximately fifty-two years of service, and as relating to building construction, are encyclopædic in character. In beginning a new volume we shall make no special announcement. As the oldest publication in its

field, we have a duty to perform. That duty lies mainly in carrying forward to the best conclusion the policies that have always marked the conduct of this magazine.

The outstanding feature is our duty to the profession we serve. And in realizing that duty and in the endeavor to live up to all it imposes, we shall not lose sight of the fact that in the profession of architecture, more perhaps than in any other, there has been steady progression to the highest ideals.

The record of this achievement is no better shown than in this volume just concluded.

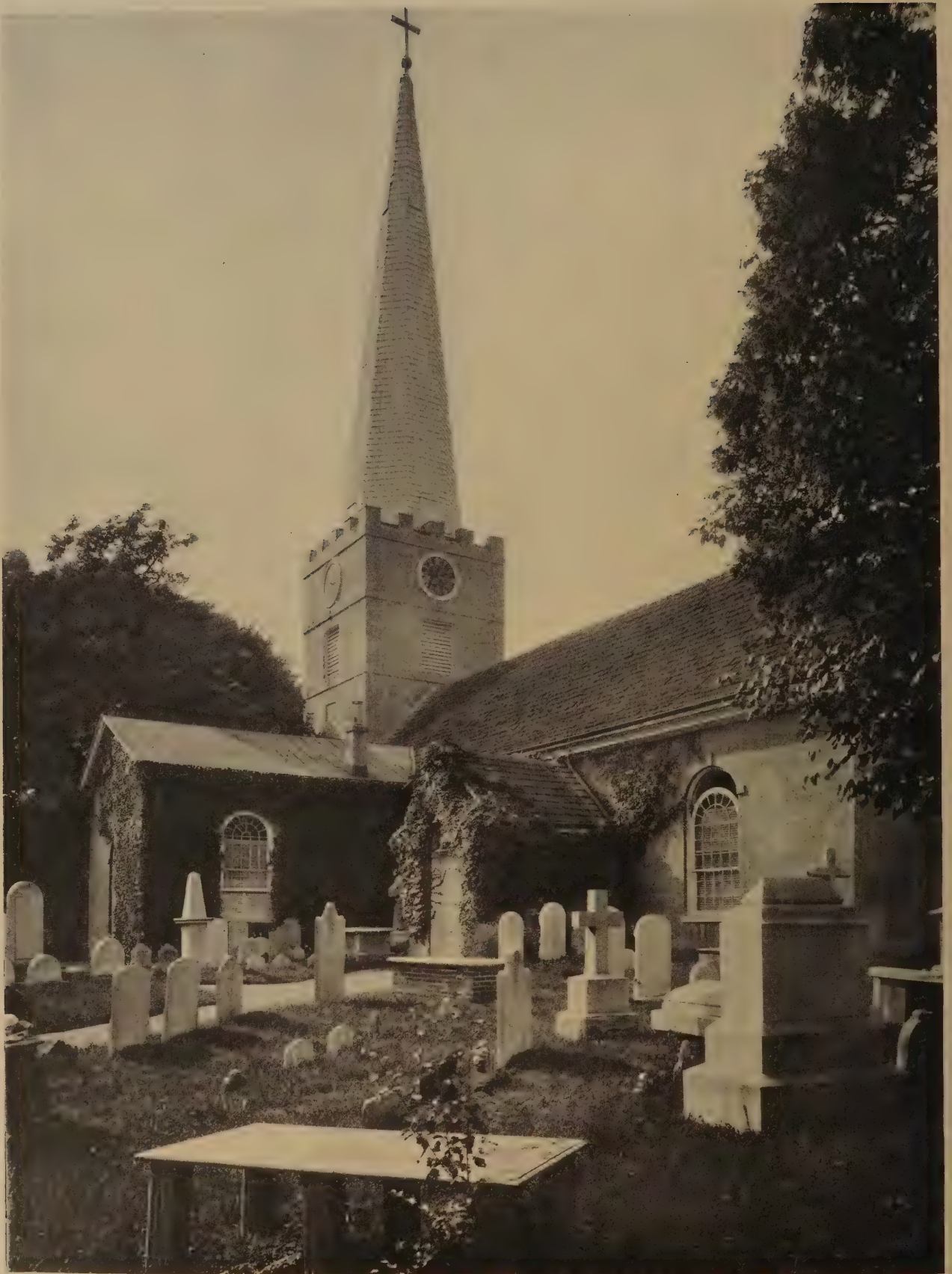
We must be chary of promises as in this very matter-of-fact age it is performance that counts most. As evidence of that performance we refer to the 131 volumes that have been issued. The 132nd will now be our present work. We need not assure the reader that we shall endeavor, with all we have, to live up to past performance and exceed it if we can.

SPECIAL NOTICE

TOPICAL *Architecture* is now a regular feature of each issue of *THE AMERICAN ARCHITECT*.

There will also be found inserted in this particular issue, the complete index for volume 131, of which this is the concluding number.

If subscribers on receipt of this copy fail to find these two inserts, we should be notified at once that we may rectify the omission.



IMMANUEL PROTESTANT EPISCOPAL CHURCH, NEW CASTLE, DEL.

BUILT ABOUT 1704—STEEPLE ADDED 1822

THE AMERICAN ARCHITECT

FOUNDED 1876

AN ARCHITECTURAL RAMBLE IN DELAWARE

By CARL A. ZIEGLER, A. I. A.

SEVERAL years ago, the writer at suggestion of the editor of THE AMERICAN ARCHITECT wandered through Virginia, Maryland and Delaware for the purpose of making a brief survey of the architectural remains of our Colonial period. Two articles were published on Virginia and one on the work in Maryland, and as the writer has now progressed as far as New England in his peregrinations, the editor has suggested that although sauntering through the original states in search of architectural

inspiration is undoubtedly very pleasant and wholesome to the saunterer, the editor gets no particular exhilaration out of it without the "copy" for which all editors seem to have an insatiable appetite. The following notes of impressions gained in Delaware are, therefore, proffered as a peace offering.

To the student of architecture there is nothing more intriguing than the transition from one style of architecture to another, unless it be that still more subtle change that takes place through the varying



HOLY TRINITY, A SWEDISH CHURCH AT WILMINGTON, DEL.—BUILT 1697-1699

(Copyright, 1927, The Architectural & Building Press, Inc.)

phases of the same style and one must be very expert, indeed, to state with authority where one phase ends and another begins.

A famous American painter once stated to the writer, in a discussion on this subject, that the transitional stage in an architectural style was to him its most interesting period, and I think one will agree with this viewpoint when following Gothic work in its development from the Norman type through the Early English to the perpendicular style as illustrated in the great cathedrals of England. These

work of the thirteen original states. The development of the style covered a period of about one hundred and fifty years and the varying shades of expression were the result of the influence of heredity and environment which, of course, are never the same in the case of any two people, however closely allied.

In travelling from Virginia through Maryland and Delaware for the purpose of sensing this transition in architectural style, one would, of course, not expect to find a decided change upon crossing a state



AMSTEL HOUSE, NEW CASTLE, DEL.—BUILT ABOUT 1732

changes in Gothic architecture required several centuries in which to develop, and it is almost as difficult to dissect one period from another as it would be to analyze one of the late Burbank's developments in the vegetable kingdom, or the very illusive changes from one theme to another, as accomplished by the great masters in music.

It is no less difficult to classify the development of the various phases of Colonial architecture in America and especially is this true of any attempt to describe the differences which occur in the Colonial

line; in fact, one wanders through Maryland for some time before becoming conscious of any change from the architectural expression of the Old Dominion, but when New Castle, Delaware, is reached the change in style is so marked as to be almost startling. No longer is the spirit of the gay cavalier, with his joyousness of life, felt in the buildings which we study, but instead we feel the industrious urge of the early Swedish and Dutch settlers.

Just as the sociologist finds a marked difference in the mentality of people in the various sections of the

country, so the architectural student finds different expressions in the buildings which they erected, and the lines of demarkation are quite as vague as are geographical boundaries, which are so pronounced upon maps and so indefinite when travelling.

Very decidedly do the houses of Maryland and Virginia convey the Georgian spirit of Old Eng-

large wings and numerous outbuildings so common to the Virginia estates.

The first white settlement in this country was the English colony in Virginia in 1607, and in 1614 the Dutch came up the Hudson and settled on what has grown to be the most remarkable little island in the world, then known as New Amsterdam and



HOUSE ON DELAWARE STREET, NEW CASTLE, DEL.—BUILT 1799

ORIGINALLY ONE HOUSE, NOW DIVIDED INTO TWO. THE ADDITIONAL DOORWAY NECESSARY WAS MADE BY CUTTING WINDOW, AS SHOWN. THE FRONT IS 45 FEET WIDE

land, the spirit that animated Sir Christopher Wren and Inigo Jones; while in Delaware the Dutch influence is quite as evident although the methods of construction are not dissimilar.

Far from tranquil was the early life in Delaware; intermittently held by the Dutch and the Swedes, the country was finally seized by the English, and because of this turmoil it was not an attractive colony for the wealthy class of settlers who found Virginia and Maryland more to their liking. As a consequence the houses of Delaware lack the size and grandeur of the mansions erected in the neighboring states; they are more compact and lack, as a rule, the

now as Manhattan, a part of New York City.

The landing of the English Pilgrims at Plymouth in 1620 has furnished American literature with a very dramatic theme, and the sturdy Swedish stock was added to the great experiment in 1638 when the good ship Kalmar Mychel under the command of Peter Minuit sailed up the Delaware River and established the first permanent Swedish settlement in this country, on the Minquas River, which he named Christina in honor of the young queen of Sweden and gave the same name to the fort which he built on land purchased from the Indians near the present site of Wilmington.



COURT HOUSE GROUP, NEW CASTLE, DEL.
EAST WING BUILT 1707—WEST WING ABOUT 1749



PART OF COURT HOUSE GROUP, NEW CASTLE, DEL.

THIS BUILDING WAS THE "HEAD HOUSE" OF A LONG MARKET SHED. THE LOWER FLOORS HOUSED THE TOWN FIRE ENGINE, THE UPPER PORTION BEING USED AS A TOWN HALL



INTERIOR, HOLY TRINITY CHURCH, WILMINGTON, DEL.

There was constant conflict between the Swedes and the Dutch who settled the eastern shore of the Delaware, and in 1655 Governor Stuyvesant sailed from New Amsterdam with seven ships and took Fort Christina which ended Swedish dominion in America.

Dutch supremacy was short lived, however, for the English under Sir Richard Carr captured their strongholds in 1664 and from that date until the present time English ideals have prevailed along the Delaware, but here and there along its shores, architecture has recorded truthfully, as it always does, the craftsmanship of the various peoples who pushed back the wilderness to form habitations in a new world.

The Swedes treated the Indians with great consideration and endeavored to instruct them in the Christian doctrine. The Rev. John Campanius translated the Lutheran Catechism into their tongue, which translation was printed in 1696. Very quaintly he translates the supplication, "Give us this day our daily bread," into "Give we this day a plentiful supply of venison and corn," which I suppose would greatly shock the fundamentalist of today, but would certainly be more comprehensible to the Indian of that time.

William Penn did not come to this country until 1682. He made his first landing at New Castle and

received title to New Castle and the surrounding country, which was administered by Pennsylvania Governors from 1682 to 1776, after which they reverted to the State of Delaware.

It was from the steps of the Court House at New Castle that the surveyors laid out the arc-shaped boundary line between the southeast corner of Pennsylvania and upper Delaware; one of the few boundary lines between states that all school children remember. In my many wanderings to study the source of American architecture, I think I have not seen any other town that conveyed better the atmosphere of Colonial days. One almost expects to see



WOODBURN HOUSE, DOVER, DEL.



HOUSE ON THE DELAWARE RIVER

the house doors open and our quaintly garbed forefathers come down the steps. It requires no great tax of the imagination to see Caesar Rodney gallop over the cobble stones on his memorable ride from Dover to Philadelphia to sign the Declaration of Independence in 1776.

Here still stands the old "Dutch House" dating back to 1658, a quarter of a century before William Penn made his first landing at New Castle.

The Court House, formerly the State House at the foot of Delaware Street, is the oldest court house in the United States.

New Castle abounds in beautiful wooden doorways, cornices, and interior woodwork, and many equally interesting examples of Colonial architecture may be found in Odessa, Dover, Wilmington, etc.; some are well known, but many have never been published.

In the smaller towns the buildings have escaped the ravages of industrial progress and it is to be hoped that a proper record may be made of these before they are destroyed, in order to preserve the concrete evidence of the labors of a self-respecting, intelligent people.

In my saunterings through the byways of our early architectural beginnings I have gained the impression that the architectural profession is really not very well informed about the early work in this country. Many know the buildings in the section in which they happen to reside, but comparatively few architects have studied Early American architecture as they have studied the buildings abroad, and until one has visited Salem, Mass.; Annapolis, Maryland; Charleston, S. C.; New Castle, Delaware; Charlottesville, Virginia, etc., it is quite impossible to realize what a great difference there was in the Colonial architecture of this country and how vastly different is the atmosphere created by the va-



OLD HOUSES ON THE RIVER, NEW CASTLE, DEL.

WITH THE MODERN FRAME EXCRESCENCES REMOVED, THESE HOUSES WOULD NO DOUBT BE AS IMPRESSIVE AS THEY WERE IN EARLIER DAYS WHEN NEW CASTLE WAS A BUSY SHIPPING TOWN



OLD COURT HOUSE, NEW CASTLE, DEL.,

rious types that settled on our Eastern seaboard.

The late Joseph Pennell once told me that he considered the early architecture of this country equal to anything that he had seen anywhere in the world, and surely no one could sketch it better than he.



BOOTH TRAVELLING SCHOLARSHIP AWARD

THE College of Architecture of the University of Michigan, Ann Arbor, Mich., announces that as a result of the annual competition the George G. Booth Travelling Fellowship in Architecture has been awarded to John E. Dinwiddie by a jury made up of members of the architectural faculty and Messrs. Marcus R. Burrowes, Alex. Donaldson, and Talmage C. Hughes, all Detroit architects.

Mr. Dinwiddie is a native of California who graduated from the University of Michigan in 1925, since which time he has been employed in San Francisco and New York offices. He is at present with York and Sawyer, architects, of New York.



NEW JERSEY MANUFACTURING EXPOSITION

JUST across the Hudson, in New Jersey, there has been concluded an exhibition that has been fruitful of many good results. The idea at root of this undertaking was to bring to the attention of the general public,—and that would include architects and builders,—the diversity and outstanding merit of "Made in New Jersey Products." During the two

weeks that this exhibition was in progress, the interest daily increased, and the attendance largely augmented.

The old saying about the prophet being without honor in his own country, has frequently been observed in the home community of important manufacturing organizations. Many times only those directly associated with the industry were familiar with the character of the product or the real importance of the company. There has, however, been a growing recognition of the desirability and value of having the home folk familiar with the things produced in their community and this exhibition in Newark is simply an extension to statewide recognition. Among the firms allied with the building industry that had exhibits, were the following:

J. H. Balmer Co., bathroom fixtures; Edison Lamp Works; T. R. Goodlatte & Sons, Inc., makers of "Walcloth"; Grant Mfg. Corp., oil burners; Jacobson Mfg. Co., oil burners; The Kompak Co., hot water heaters; Murphy Varnish Co.; Newark Varnish Works, Inc.; Richardson and Boynton Co.; The Thatcher Co.; Wallace & Tiernan Co., Inc., water purification units, and Zenitherm Co., Inc., wall and flooring material.



THE NARROWEST STREET

ST. AUGUSTINE, FLA., oldest white settlement on the mainland of the United States, contains the narrowest street in the Union. It is called Treasury Street. From side to side the street measures about six feet.

ROADSIDE JOTTINGS

SOMEWHAT HASTY OBSERVATIONS ON MOTOR TRAVEL IN ITALY

By SAMUEL CHAMBERLAIN

Illustrated with Pencil Sketches by the Author

HAVING spruced up the vocabulary, (aided by a phrase book), with such invaluable expressions as "Please put a touch of brilliantine on my moustaches" and "What! I have to pay duty on a few cigars!", and complied with numberless formalities, this gaping chronicler has at last penetrated into Italy, in quest of material for the indulgent AMERICAN ARCHITECT. Three years have elapsed since we left the land of chianti and rizzoto and black shirts, of marble spires and vine-clad hills and hurdy-gurdies. The interval has only served to intensify the beauty of the country and to bring forth the observation that it is a much more pleasant, (and expensive), place to visit than formerly. One may now visit museums and cathedrals without being heckled by guides and, (glory to Il Duce), hotels are forced to post the prices of their accommodations. The poor no longer beg for themselves; instead a uniformed collector marches about, jingling a non-reversible sack under your nose.

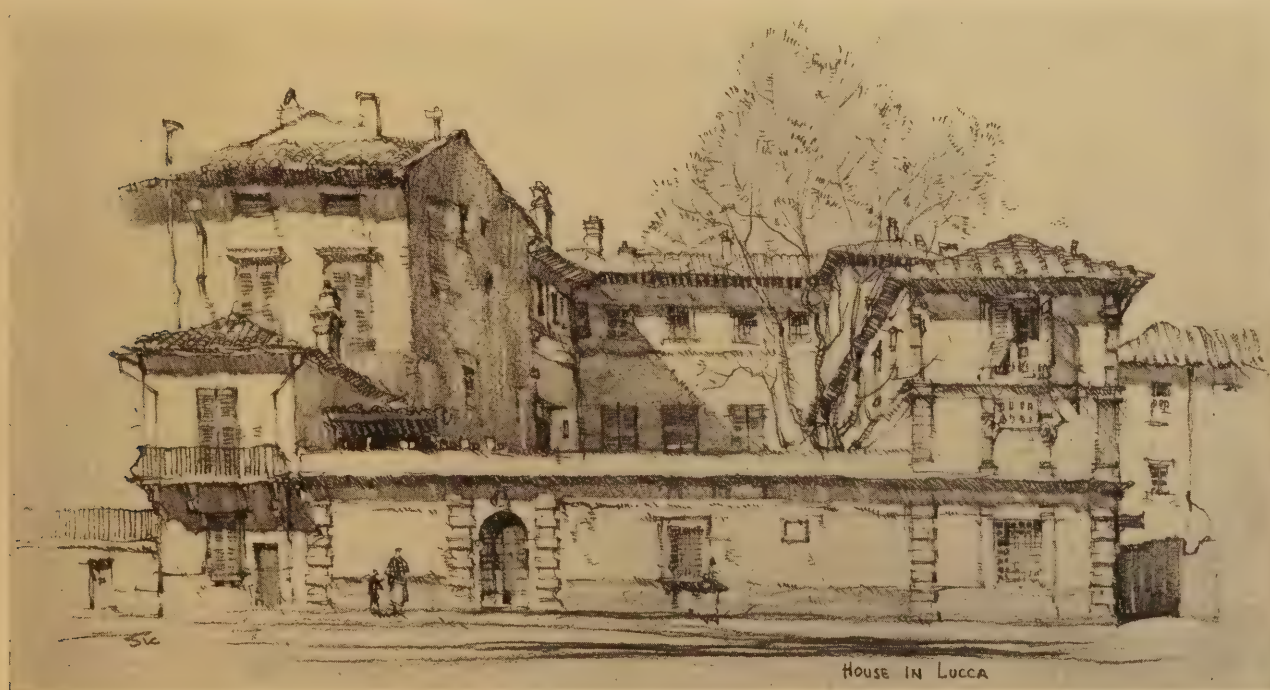
But much has remained unchanged. One notes with a sigh that they still paint pilasters and wisteria on their houses. Army officers continue to pose and preen on the street corners and watch out of one eye, from under the visor of their tremendous caps, to note the impression they are making upon the passing signorinas. If anything, their caps are be-

coming loftier with their manner, their waists more pinched and their sleeves more tightly fitted. A monacle seems to have become a positive necessity. Apparently it is not incongruous with shirt sleeves, if the shirt be black! The cigarette holders are getting longer and jauntier and the approved angle is approaching that of an American politician's cigar. Oxford bags make their belated appearance on the Italian collegians who, as always, stand on the sidewalks, sipping *caffè espresso* and ogling the ladies. There are many embryonic Gene Sarazens, *café golf* players in knickers and jazz-bow ties, although nothing is rarer in Italy, I suppose, than a golf course or a Socialist deputy. The human scene is as colorful as ever, and, bird-like enough, is spread largely by the male of the species. Half of the population must wear uniforms of one sort or another. And since the last visit, (at which time they had all of the rah-rah accoutrements save one), the Facisti have developed a new yell, given in the best high school manner. It runs in actual letter, according to the posters:

Eia, Eia, Eia, Alala!!

Try that one out on your track team.

So much for my little investigation of European conditions. More explicit notes can be given on motoring. One needs approximately as many official



HOUSE IN LUCCA

papers to enter the Kingdom of Italy with anything on four wheels as would be needed for a prospective Soviet ambassador to Washington. There are triptychs and passavants and a bulky pamphlet which proves to be an international driving license in seventeen languages. But once the labyrinth of red tape is untangled and both governments know what your grandmother's maiden name was, the matter of slipping over the bridge in the hills which marks the Franco-Italian frontier is simple enough. Motoring in Italy is not a complex matter. Enterprising manufacturers from Springfield, Mass., have dotted the entire Italian scene with monuments of

safety gates be open. This is perhaps well intentioned, but the joker lies in the fact that an observant Fascist is lurking alertly in the nearby bushes. If your car fails to make a definite halt, you *are* halted, and presented with a neatly printed receipt



A STREET IN BORDIGHERA

BORDIGHERA HAS A FLASH OF BEAUTY IN ITS OLD TOWN

our civilization, red gasoline filling tanks. Garages are frequent and the roads are usually good. There is one new and not very beguiling road regulation. One should stop dead, then look and listen before traversing any railroad crossing, even though the



THE MARKET PLACE, SIENA

ONE MAY NOT HOPE TO CONVEY ANY SORT OF IMPRESSION OF THE SPLENDORS OF SIENA

for 25 lire, which you obligingly pay. Since there are, by actual count, more than fifty crossings on the Genoa coast road, it is obvious that one must choose between speed and bankruptcy. This is a companion piece to that celebrated ruling which fines a passenger 20 lire for touching his feet on the opposite seat of a railway carriage. Stern faced gentlemen will frequently stop your car in the middle of a country road and scan your papers with great care, rub their fingers over your engine number, etc., but they are agreeable enough if your documents are scrupulously correct. For those who are not whole heartedly in sympathy with the Fascist regime, it might be well to state that one may, in conversa-



THE BRICK TOWERS OF ALBENGA

THE BRICK TOWERS OF ALBENGA
FROM THE ORIGINAL PENCIL SKETCH BY SAMUEL CHAMBERLAIN

tion, refer to Mussolini as "Mr. Johnson," that being the official code-word for loud-mouthed Americans since one of our compatriots was arrested when he was heard to speak disrespectfully of the Duke of Italy.

One has an unfortunate impression of the Italian roads at first, for the mountainous highway which leads from Menton to Genoa is a terror. One could obtain approximately the same effect if it were possible to ride on a roller coaster with hexagonal

ings and corbels. It is an astonishing jumble. If it could be magically set among the regiment of towers of San Gimignano, the result would be dramatic perfection itself. A dozen quaint seaports intervene before Genoa, but the architecture does not pick up appreciably until one approaches Carrara and the marble belt, when the little town of Pietrasanta rises out of the plain, glittering with white churches and noble old gateways, a forerunner of Lucca's splendor.



CHURCH OF SAN GIUSTO, LUCCA

LUCCA, GRACEFUL, PATRICIAN AND CLEAN, IS A REVELATION TO THE UNSUSPECTING TRAVELER

wheels. This road leads through Ventimiglia, that frontier town whose name will linger long in the memory of travelers who have pined away in its international railway station while the Customs officials did their poking and prying. The neighboring Bordighera has a flash of beauty in its old town, enough to call for the sketch here shown. San Remo, one of the most pretentious of the towns on the Italian Riviera and one of the stupidest, has a glimpse of sunlit antiquity too, but Albenga, hovering flat and peaceful under the domination of its massive towers, is the first site of considerable interest. The cathedral of Albenga is unique in the quantity and grouping of its great towers, some of them quite barren, others varied with arched open-

Lucca, graceful, patrician and clean, is a revelation to the unsuspecting traveler. It is a miniature Florence within walls, fabulously rich in churches and palaces, glistening with striped campaniles and coppery domes. But why attempt to describe it in a sentence? In fact, how can one hope to convey any sort of an impression of the splendors of Pistoja, of San Gimignano, Siena, Orvieto, Viterbo, Arezzo and Perugia in a few poor paragraphs? To continue the travelogue, even in the condensed form of a syllabus would call for far more pages than are allotted me. The temptation to cite two unexpected treasures is, however, too strong, and I hereby implore all prospective visitors in Tuscany to include Certaldo, that utterly magnificent citadel of brick



PERUGIA

FROM THE ORIGINAL PENCIL SKETCH BY SAMUEL CHAMBERLAIN



SAN REMO

FROM THE ORIGINAL PENCIL SKETCH BY SAMUEL CHAMBERLAIN

where Boccaccio died, and Toscana, near Viterbo, on whose grassy outskirts linger two of the most perfect Romanesque churches one could hope to find, deserted and unrestored and serenely beautiful. I respectfully submit that nothing quite equals a

contained coins which were scattered around him. These coins bore the date A. D. 111.

Footmarks of Roman sandals can be seen in the soft cement, and well heads scored by the lowering of a rope. A steel covered spur of a fighting-cock, a surgeon's lancet and many other discoveries give indication life in Roman days had many aspects similar to that of today.

30

SCULPTURE ON BUILDINGS

IT seems a pity it should be so often the case that large buildings recently erected represent such poverty in their carved ornamental details, states *The Builder*, London. Such buildings offer a field for sculptured ornament which the riches of applied craftsmanship might redeem. Yet the most paltry character attaches to such additions, as though more a concession to mere habit than to any inwardness or pleasure in the ornament itself. It appears to us that, as these large commercial undertakings are so sparing in architectural richness, more might be done to relieve this starkness than is the case. It is true that on Bush House we have the large group erected above the main entrance, but this is estimable for its sentiments rather than for its qualities as sculpture. It will be said by some that, as in Gothic or Renaissance ornament, this should be conceived with and grow through the structure itself, an integral part of the conception. But with the more wholly utilitarian character belonging to these large commercially conceived buildings there might be, for want of the better thing, some intimate sculptural work of really vital character added to relieve the weariness of mere size, so little related to content.

Nor must we be too much bound up by theories which, deduced from the best periods of building, apply more to them than to those buildings to which we refer. Theories of applied ornament belong to books rather than to buildings. In the latter case we do what we can in the circumstances. It is obvious that the nature of sculptural ornament is quite lost sight of in many of our new commercial buildings, such as are to be found in the new Regent Street or on the Devonshire House site. There is no advantage in such additions. While recognizing this, we might none the less have still the reality of sculptured ornament, even though an added thing, which, if beautiful, can hardly be exuberance. There are sculptors—many young ones of great ability—leaving our schools, who, even though we must regard it as a second best, could in one way and another give the human touch, the sense of the impulse to beauty, which is the reality we seek, and could thus relieve the baldness, the commercial insensibility, that pervades such buildings as those to which we have referred.



DOORWAY IN ORVIETO

sunny April day in the hills of Toscana, a fiasco of Frascati, a loaf of bread, some saucisson de Milan and a slab of Gorgonzola under an olive tree, with the budding map of half of Tuscany spread beneath you in a thousand rippling shades of brown and lavender and pale green.

30

RUINS OF ROMAN CITY UNEARTHED IN GREAT BRITAIN

RECENT excavations by English archaeologists at the site of the Roman town of Uriconium have revealed the largest Roman building yet uncovered in Great Britain, according to recent press despatches.

A shattered tablet found near the entrance when pieced together revealed it was the forum or market place erected by the Emperor Hadrian in A. D. 130. Numerous other buildings unearthed all show indications the city was destroyed by fire. The bricks of the walls are so blackened and charred they look as if the conflagration might have occurred recently.

Several skeletons have been found. One, that of a man, in a "hypocaust," or heating chamber for a bath. In his hand was a broken box which once



EDITORIAL COMMENT



THE suggestion, made by C. Grant La Farge, chairman of the Institute's Committee on Allied Arts, in his presentation to the recent convention of that Committee's report, that we now turn our attention to architecture as an art, having long debated it as a science, while undoubtedly a good one, may not, we believe, be taken as an entirely workable premise. While architecture is undoubtedly an art, in its first analysis, its practice,—and we infer that is what Mr. La Farge is discussing,—is something very much more. At the same time it is quite possible,—for many men have successfully accomplished it,—to retain the true art attitude and include the various and more prosaic functions that make up the architect's daily work.

That a successful architect must be something more than an artist need not be argued here, as it is generally conceded. Architects must combine in their work as artists, other abilities, bordering on the prosaic, that artists in no other fields may have to consider. In the proposed knitting together of the various arts allied to architecture and the crafts that are equally closely connected, architects will find that their practical experience gained by work in architecture as a profession will serve them in good stead.

Undoubtedly the scheme proposed by Mr. La Farge's Committee is one that, if successfully carried out, would advance the cause of architecture in this country very materially. The thing that would most retard a consummation so very desirable, would be an attitude of condescension on the part of the profession and the assumption that architecture was strictly an art, and that those who practice it did not regard themselves as either scientists or professional men while engaged in the proposed effort to secure a closer alliance.

IN looking over the English architectural journals, we find that there is a widespread sentiment relating to the spoiling of the English country roadside. Writers in many instances wander from their topics to express the feeling that the matter has become of such great importance as to dominate the minds of the contributors and correspondents of these journals.

Men who were familiar with rural England twenty-five years ago, and who return today to renew impressions of quiet, picturesque beauty, are filled with regret when they see what has happened. There is unanimity of expression in the belief that

the motor car and the various roadside utilities are largely responsible. But the more careful critics while believing that the motor car is a contributing cause, are also of the opinion that those in authority in suburban towns are largely responsible. It is pointed out, and with reason, that there is vested in these local governing bodies, all the necessary authority to control the situation and that they have only to exercise that power to arrest the further encroachment and despoliation of these fine country roads.

JOURNALS devoted to the interests of contractors for building construction frequently criticize architects' specifications, claiming that they are not sufficiently definite and too often contain such clauses as "as required," "as indicated," and "required by conditions." The point contended by contractors that architects should know what is required, is well taken. It is neither impossible to write a definite specification nor unreasonable for both client and contractor to expect it. A physician who did half a job because he was underpaid or too busy, would find his practice dwindling. Many architects prepare complete and very definite specifications; many do not. Those who do not would do well to study this phase of their work or allot sufficient time to this portion of their services to correct what is often a most unsatisfactory condition. Many of the difficulties encountered with work under construction would be removed by the simple procedure of furnishing a proper contract document in the form of a definite specification.

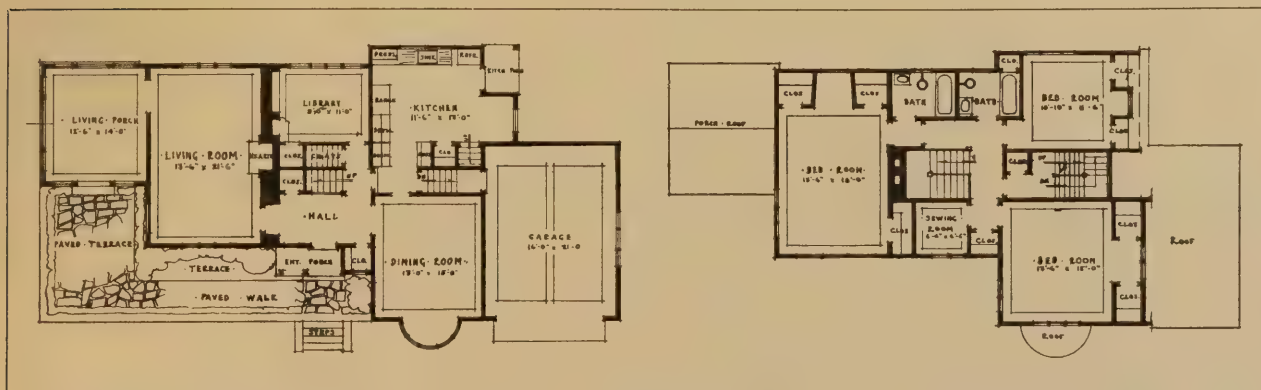
THE end of the scholastic year has brought with it the usual exhibitions of the work of students in our architectural schools. What impresses us most in such exhibitions as we have visited is the apparent effort on the part of teachers to give the student a practical and working idea as to the various problems he studies. We recall the days we spent in the classroom striving to obtain a better appreciation of art, and since then have many times realized how little knowledge that was really practical was imparted to us; or better stated, perhaps, how we failed utterly to grasp such knowledge. It is encouraging to observe that this phase of architectural education is so strongly emphasized, thus giving the student a better opportunity to give expression to his own artistic temperament.

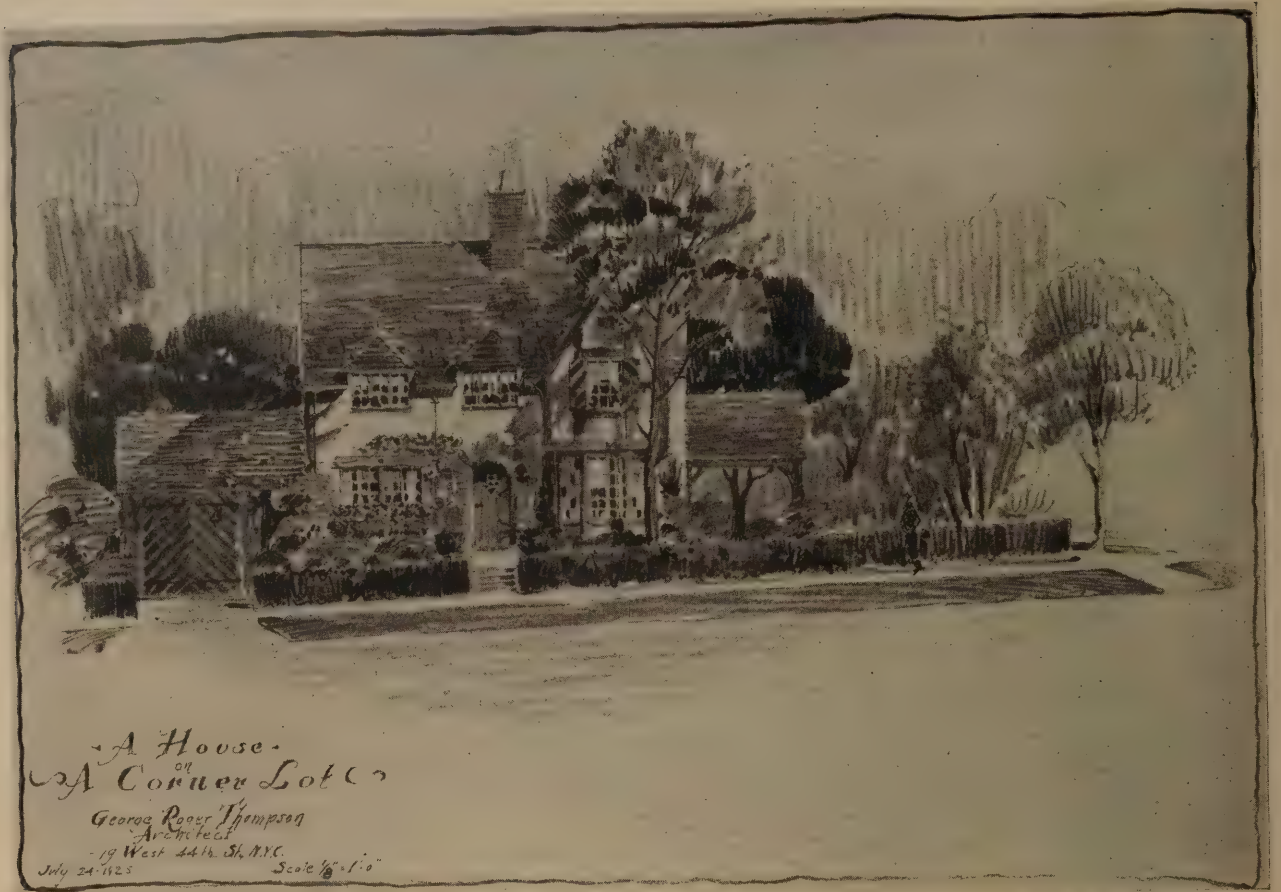
A GROUP OF BUILDINGS OF MODERATE COST



SKETCH OF PROPOSED HOUSE—GEORGE ROGER THOMPSON, ARCHITECT

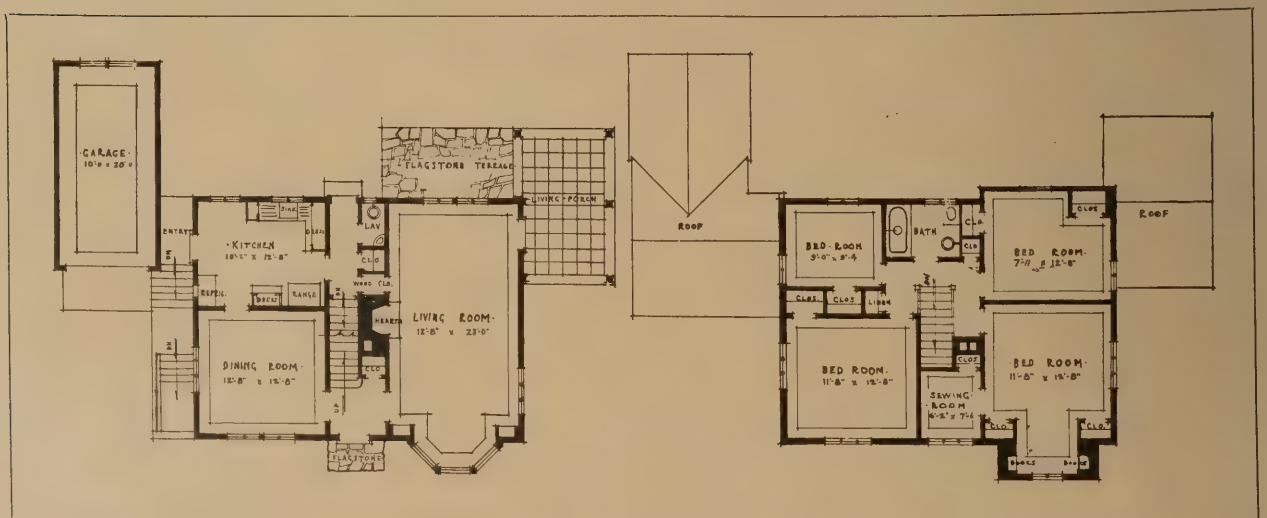
THIS HOUSE WAS DESIGNED AS A FRAME CONSTRUCTION WITH A SLATE ROOF. THE GARAGE IS ATTACHED TO THE HOUSE, BUT THERE IS NO ROOM ABOVE IT. ON THE FIRST FLOOR THERE ARE A GOOD SIZED LIVING ROOM WITH ADJOINING PORCH, A LIBRARY AND A DINING ROOM, AND A LARGE KITCHEN. ON THE SECOND FLOOR THERE ARE THREE GOOD SIZED BEDROOMS, TWO BATHS AND A SEWING ROOM, WITH PLENTY OF CLOSET SPACE. THE HOUSE IS DESIGNED TO HARMONIZE WITH THE NATURAL SETTING, AND THERE IS SUGGESTED IN THE SKETCH CERTAIN PLANTING WHICH FURTHER CARRIES OUT THIS IDEA





HOUSE ON A CORNER LOT IN HEMPSTEAD, L. I., N. Y.—GEORGE ROGER THOMPSON, ARCHITECT

THE WALLS OF THIS HOUSE ARE OF HOLLOW TILE, METAL LATH AND STUCCO. IT IS OF FRAME CONSTRUCTION, WITH WOOD SHINGLES FOR THE ROOF. IT IS HEATED BY VAPOR, AND DRAINAGE IS SUPPLIED BY A SEPTIC TANK. A GARAGE IS ATTACHED TO ONE SIDE OF THE HOUSE BALANCED ON THE OTHER SIDE BY A LIVING PORCH





SALVATION ARMY BUILDING, ST. PETERSBURG, FLA.

HARRY F. CUNNINGHAM, ARCHITECT

(Plans not available)



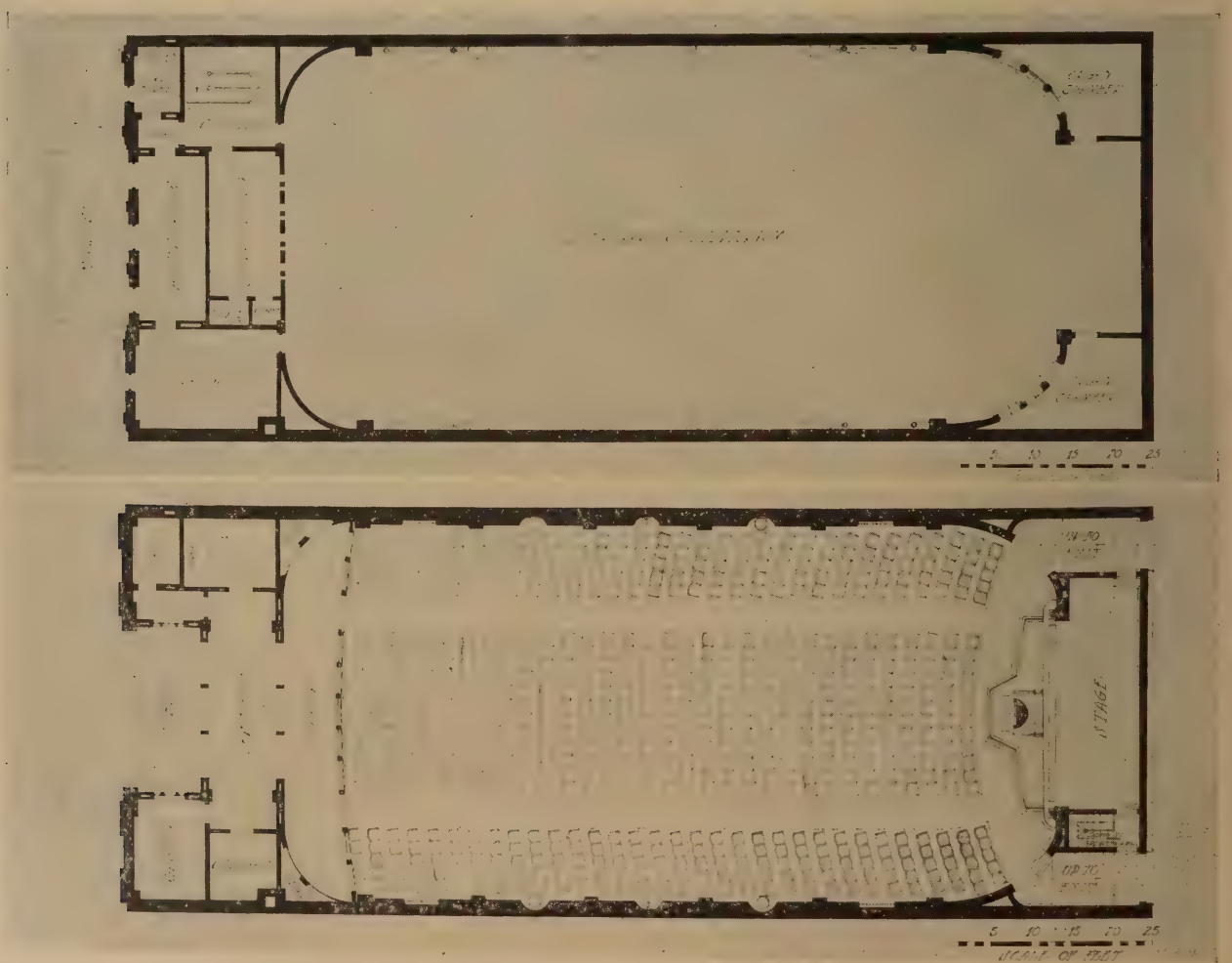
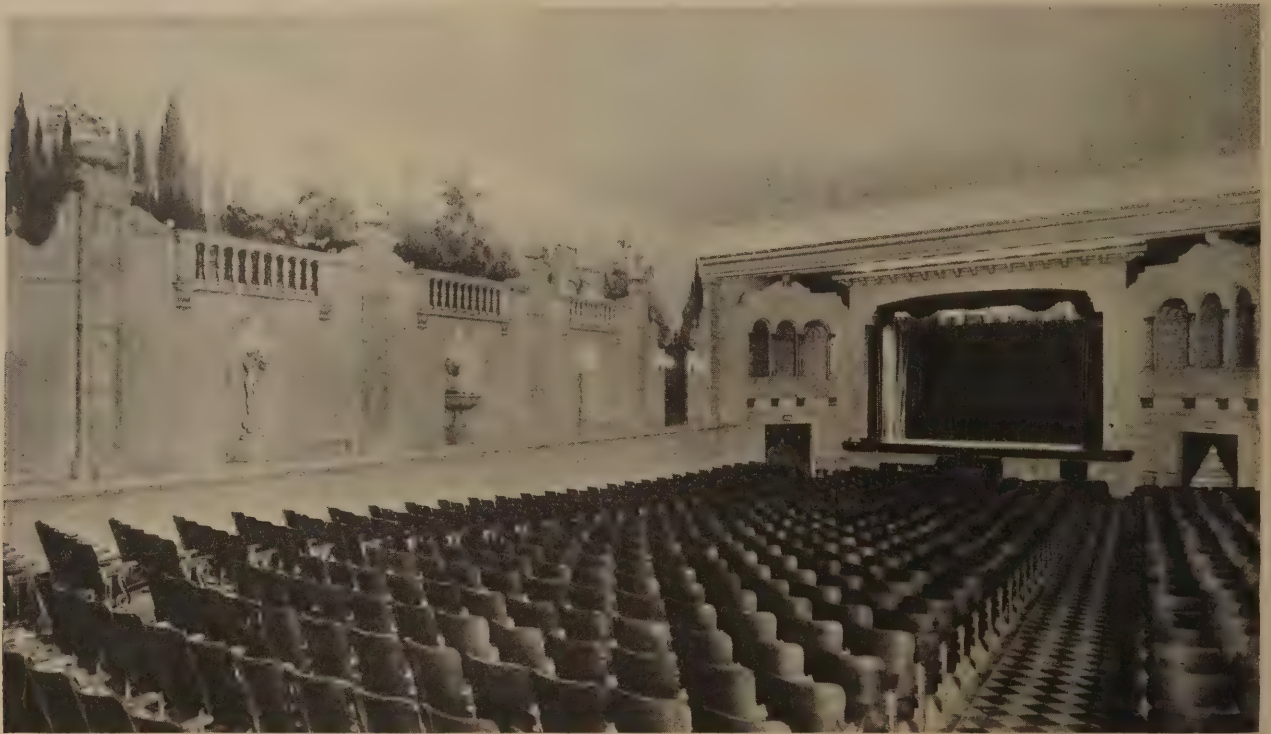
ENTRANCE DETAIL, SALVATION ARMY BUILDING, ST. PETERSBURG, FLA.

HARRY F. CUNNINGHAM, ARCHITECT

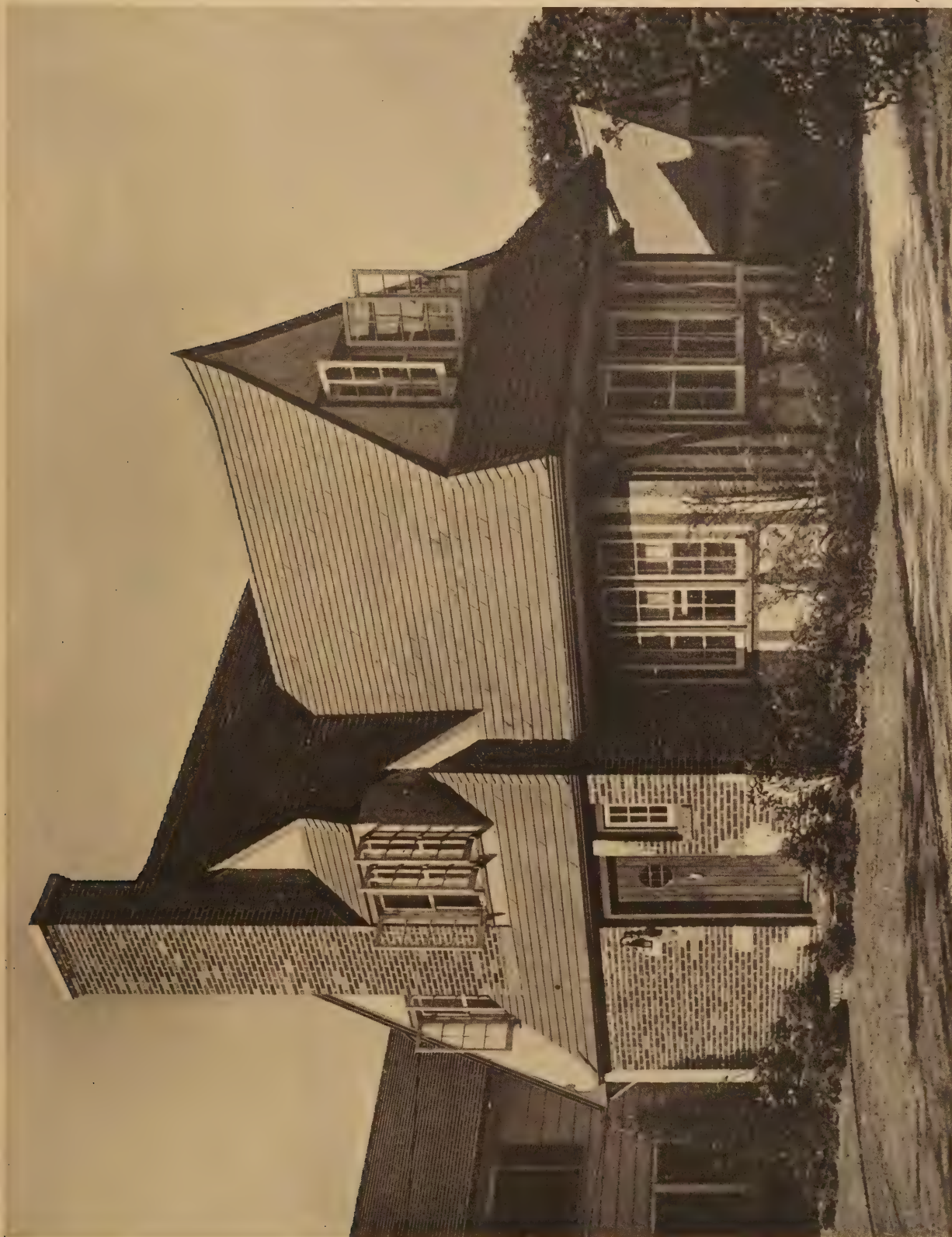


CAPITOL THEATRE, RICHMOND, VA.—CARNEAL & JOHNSTON, ARCHITECTS

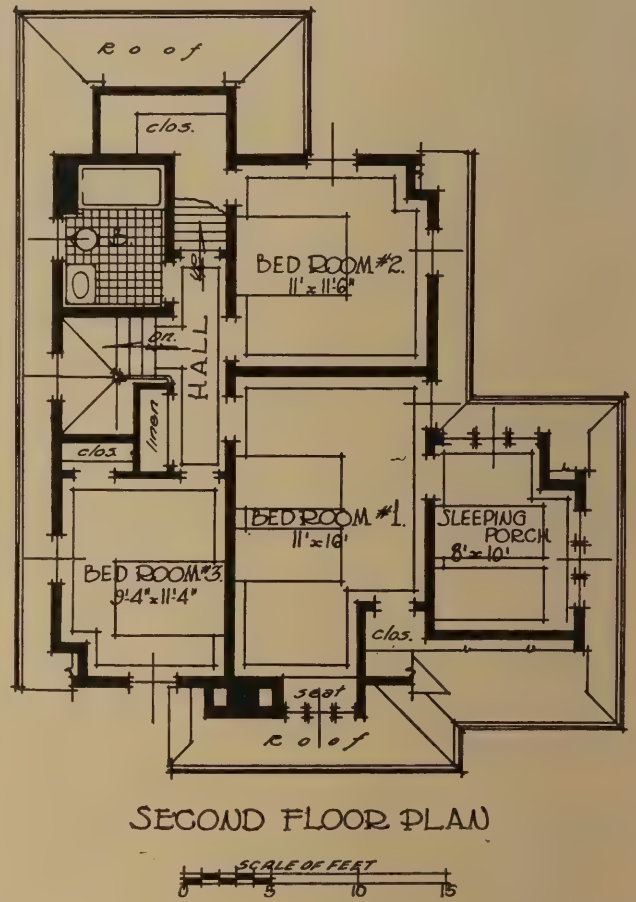
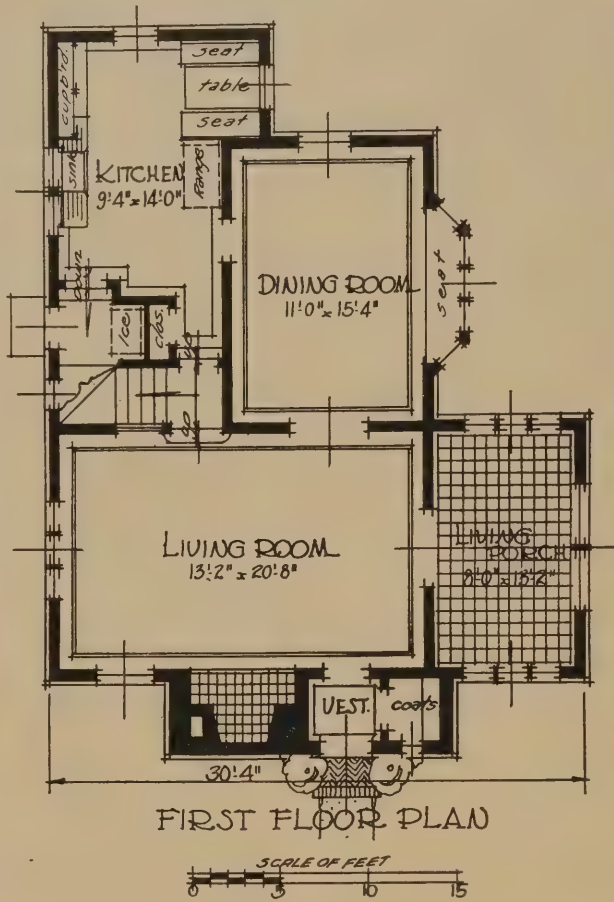
THE AUDITORIUM OF THIS THEATRE IS IN THE FORM OF AN AMPHITHEATRE SURROUNDED BY A GARDEN WALL AND DEVOID OF THE CONVENTIONAL CORNICE AND PANEL CEILING, WITH LIGHTING SO ARRANGED THAT ONE HAS THE FEELING OF OUTDOORS WITH A MOONLIT SKY AS A CEILING. THE SIZE OF THE LOT IS 45 FEET X 129 FEET. A COMPLETE VENTILATING SYSTEM SUPPLIES WARMED FRESH AIR THROUGH MUSHROOMS IN THE FLOOR IN WINTER. SUMMER VENTILATION AND COOLING IS OBTAINED BY A RAPID CHANGE OF AIR, THE WHOLE VOLUME BEING DISPLACED IN 90 SECONDS. THE SEATING CAPACITY IS APPROXIMATELY SEVEN HUNDRED



CAPITOL THEATRE, RICHMOND, VA.—CARNEAL & JOHNSTON, ARCHITECTS



HOUSE AT BAYSIDE, L. I., N. Y.—R. C. HUNTER & BRO., ARCHITECTS



HOUSE AT BAYSIDE, L. I., N. Y.—R. C. HUNTER & BRO., ARCHITECTS

THE HOUSE IS OF BRICK AND FRAME CONSTRUCTION. THE ROOF IS OF SHINGLES. FLOORS ARE CONSTRUCTED OF WOOD, AND PARTITIONS ARE OF WOOD STUDS AND WOOD LATH. DOORS AND WINDOWS ARE OF WOOD, AS IS ALL TRIM. CERTAIN SURFACES OF THE EXTERIOR ARE TREATED IN STUCCO. THE WOOD TRIM AND SHINGLES ARE FINISHED IN WEATHERED GRAY, WITH RED BRICK AND WHITE STUCCO. THE HOUSE IS EQUIPPED WITH ELECTRICITY. A STEAM HEATING SYSTEM IS INSTALLED. DRAINAGE IS SUPPLIED BY A SEWER SYSTEM, AND WATER FROM PUBLIC SUPPLY. PIPING IS OF CAST IRON AND, IN CERTAIN CASES, BRASS. PLUMBING FIXTURES ARE OF VITREOUS WARE

INTERIOR ARCHITECTURE

MODERNIZING AN OLD HOUSE

THE modernizing of an old house is a problem of much greater proportions than the mere restoration of a relic of bygone days. Perhaps the greatest difficulty which such a problem presents lies in the attempt to retain the peculiar charm and character of the original. In properly providing for the installation of certain modern equipment, too, many serious difficulties are necessarily met with, but these may often be satisfactorily overcome without making any radical changes to the general character of the design of either the exterior or interior of the old house. One of the most characteristic features of the old Colonial house,—and the old house, herewith illustrated, was typical of those times,—was the leanto which abutted the wall of the kitchen. In the process of modernizing the old house, however, it was necessary to dispense with this old-fashioned feature. A comparison of the photographs of the old house in its original state and of those showing

the house as remodelled will show how successfully the architect, Bradley Delehanty, has retained the old lines and conserved the old character of an old farmhouse on Long Island, New York, which was built in 1735, and made it function according to our present ideas of living. After removing the leanto, the architect added a new wing to this side of the house. While it was not possible to retain accurately the old lines in a two story extension, the character has been retained, and the new wing itself was built almost entirely of old materials salvaged from the tearing down of the leanto.

The first floor of this new wing is used for service. The second floor is divided between a nursery and sleeping porch. From the porch an outside staircase, which immediately suggests old Colonial architecture, leads to the children's pen, an enclosed yard for play, thus allowing direct access between the nursery and the play yard without necessitating



THE OLD HOUSE AS IT APPEARED BEFORE ALTERATIONS WERE MADE. NOTE THE CLAPBOARDS ON THE LEFT HAND SIDE OF THE HOUSE AND SHINGLES ON THE RIGHT

passage through the entire house. Adjoining the kitchen, and reached by a door from the kitchen, is an enclosed yard which is used as a cook's garden.

Examination of the photographs of the old house will show that the exterior walls of the living room portion of the house are of clapboards while those of the dining room are of shingles. The architect was convinced by this use of materials, and by their condition as well, that the living room wing had been added at a later date.

In order that a house built two hundred years ago, in materials and methods then at command, be made livable today, according to our modern standards of living, consideration should be given at the very outset to the installation of certain conveniences by which the remodelled house may better conform to prevailing ideas of comfort and sanitation. This will naturally necessitate certain changes in the plan, as well as certain alterations to the old fabric and the dismantling of certain portions of the interior architectural treatment. The successful remodelling of an old house will conserve its original character, in design and in workmanship, no matter how extensive these alterations may be. This is often brought about by salvaging the old materials and using them in the rebuilding.

Bradley Delehanty, the architect whose problem it was to modernize the old farmhouse, photographs of which are reproduced herewith, made a

careful survey of the various materials, as well as of the design in which they took form, before attempting or even planning to make any changes to either the exterior or interior of the old building. The survey showed that the house had sunk eighteen inches in one corner of the dining room. This necessitated the jacking up of the entire house at this point, and resulted in certain underpinning and shoring. In order that the old chimneys might function properly, they were rebuilt around new terra cotta linings, using the old salvaged materials throughout in the rebuilding process.

Among other things that the architect discovered in his survey of the materials, was that the wood panelling in the living room appeared to be of a much later date than that of the dining room. Its design was more sophisticated and the woodwork itself was in excellent condition. The panelling in the dining room was much more crude in detail, suggesting greater age. This further bore out the inference, already referred to, that that living room wing had been added at a later date to the original house.

In the accompanying plans of the first and second floors, in which the alterations are indicated in hatched lines, it will be seen that only one partition was removed, to allow of a large guest room where before there had been two.



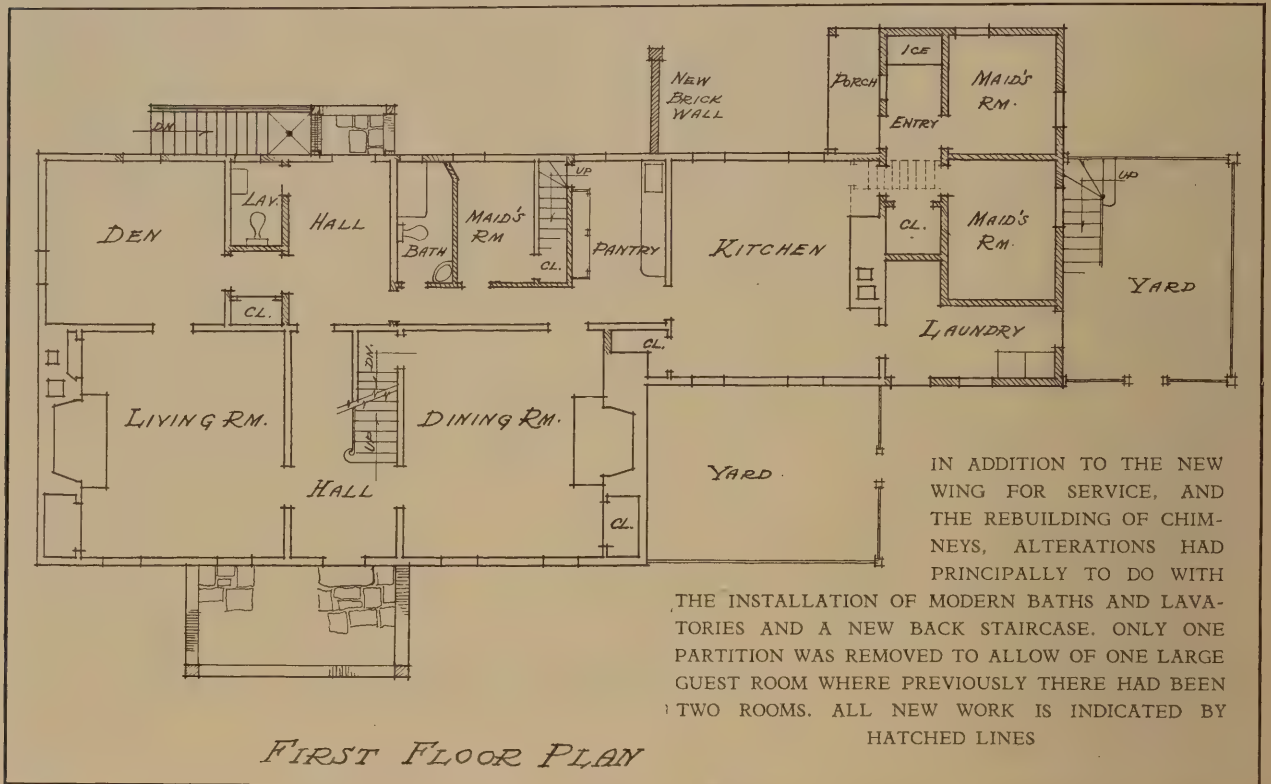
REAR OF OLD HOUSE, SHOWING OLD BARN WHICH WAS REMOVED AT THE TIME ALTERATIONS WERE MADE, AND THE KITCHEN LEANTO AS IT ORIGINALLY APPEARED



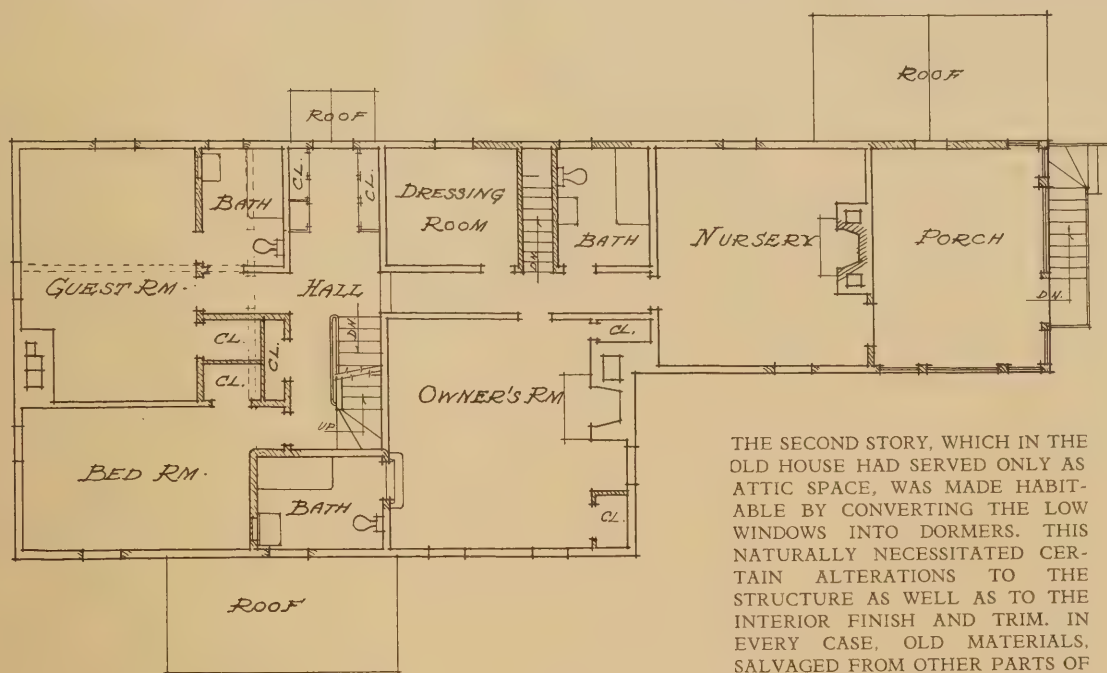
IN PHOTOGRAPHS REPRODUCED ABOVE, THE TWO TYPES OF EXTERIOR WALL TREATMENTS EMPLOYED—CLAPBOARDS AND SHINGLES—ARE SHOWN IN DETAIL. AT THE LEFT, THE FRONT PORCH, AND, AT THE RIGHT, THE KITCHEN ENTRANCE
(Other photographs of the restored house are shown in the plate section)



LIVING ROOM IN THE HOUSE OF CLETUS KEATING, GLEN HEAD, L. I., N. Y. RESTORED BY BRADLEY DELEHANTY, ARCHITECT



DINING ROOM IN THE HOUSE OF CLETUS KEATING, GLEN HEAD, L. I., N. Y. RESTORED BY BRADLEY DELEHANTY, ARCHITECT

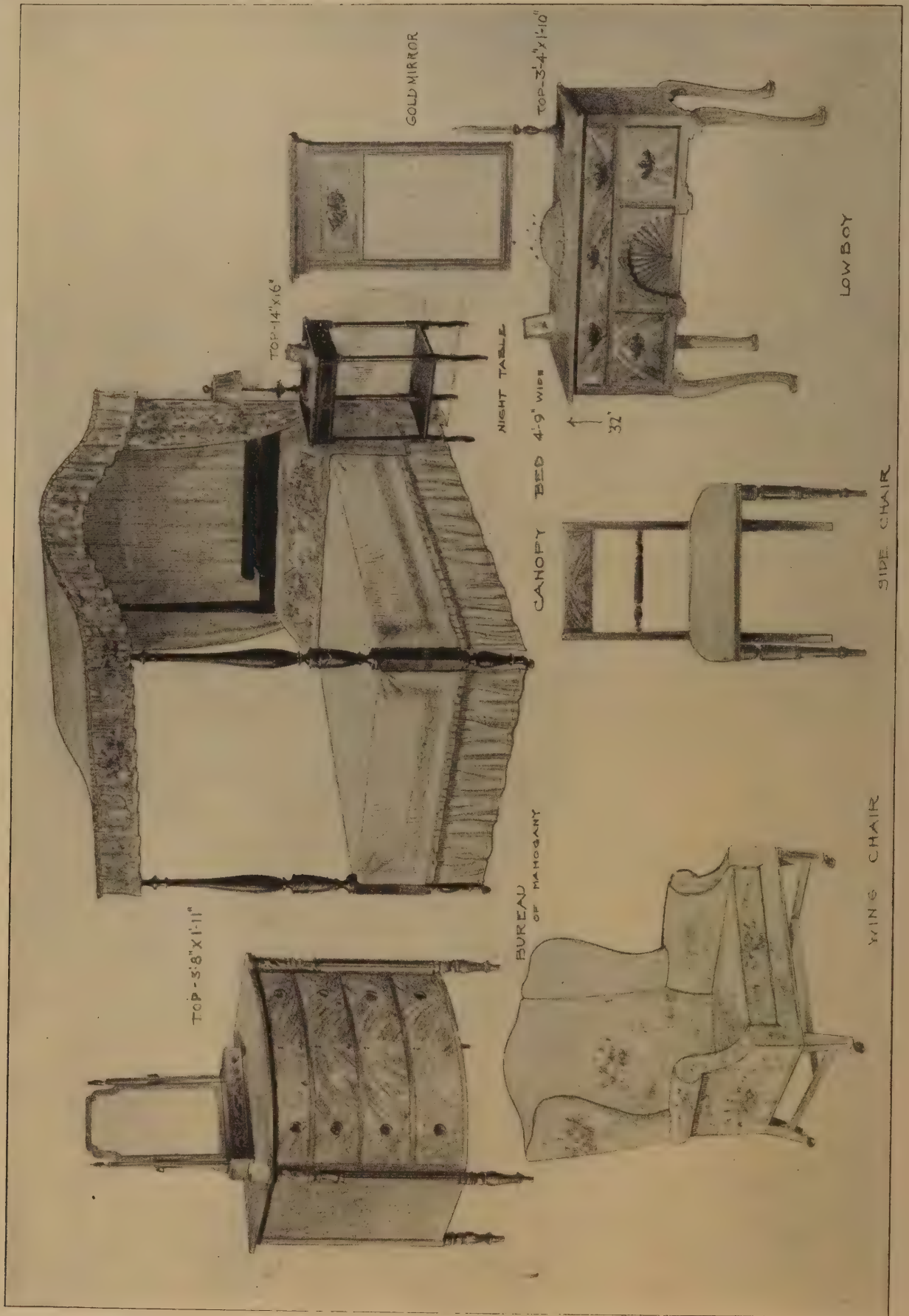


THE SECOND STORY, WHICH IN THE OLD HOUSE HAD SERVED ONLY AS ATTIC SPACE, WAS MADE HABITABLE BY CONVERTING THE LOW WINDOWS INTO DORMERS. THIS NATURALLY NECESSITATED CERTAIN ALTERATIONS TO THE STRUCTURE AS WELL AS TO THE INTERIOR FINISH AND TRIM. IN EVERY CASE, OLD MATERIALS, SALVAGED FROM OTHER PARTS OF THE BUILDING, WERE USED FOR THIS PURPOSE

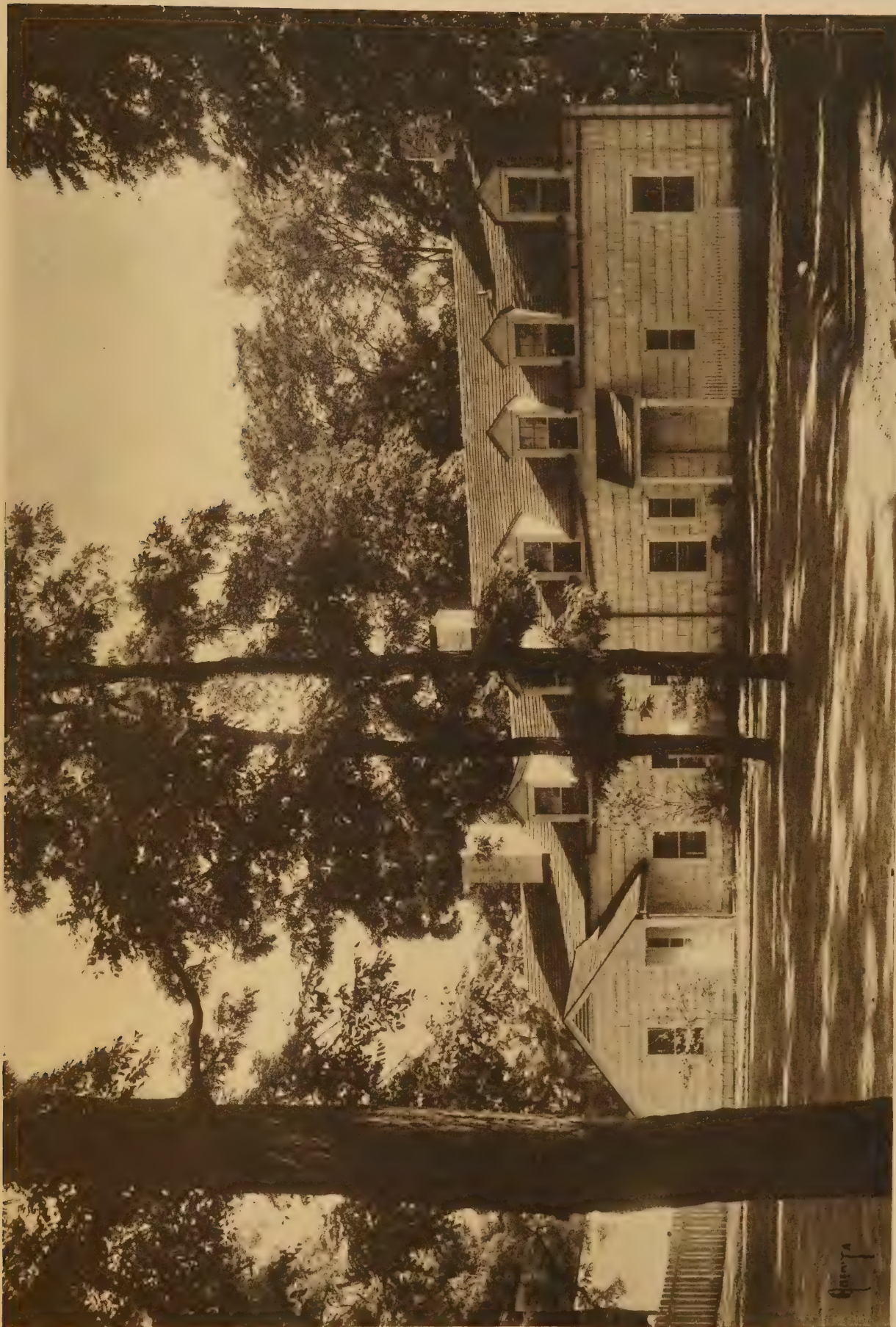
SECOND FLOOR PLAN



OWNER'S BEDROOM, HOUSE OF CLETUS KEATING, GLEN HEAD, L. I., N. Y. RESTORED BY BRADLEY DELEHANTY, ARCHITECT

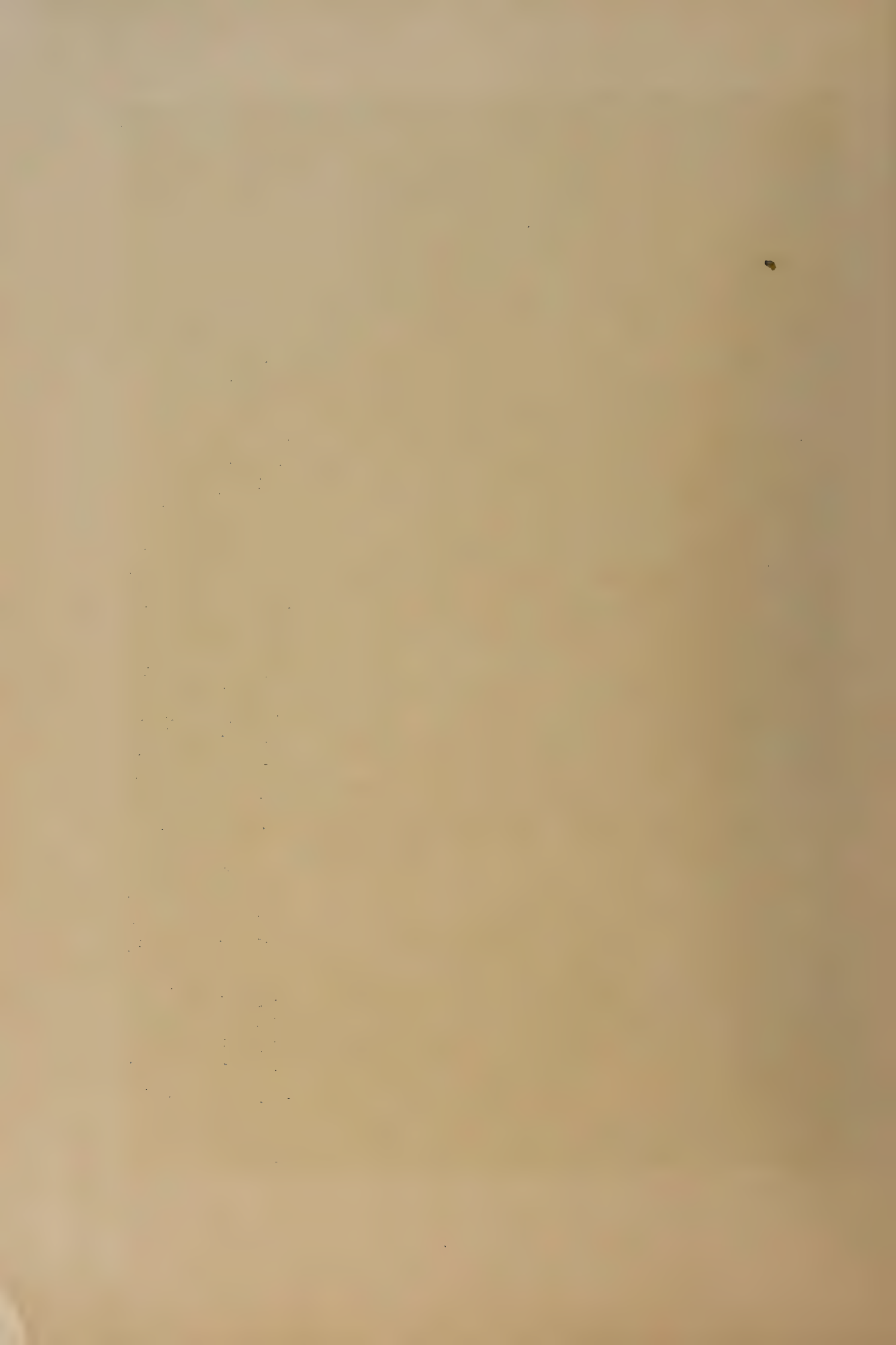


SKETCHES OF FURNITURE FOR A BEDROOM



REMODELLED HOUSE OF CLETUS KEATING, GLEN HEAD, L. I., N. Y.—BRADLEY DELEHANTY, ARCHITECT

(For plans, views of original building, interiors and description see *Department of Interior Architecture*)





REMODELLED HOUSE OF CLETUS KEATING, GLEN HEAD, L. I., N. Y.—BRADLEY DELEHANTY, ARCHITECT



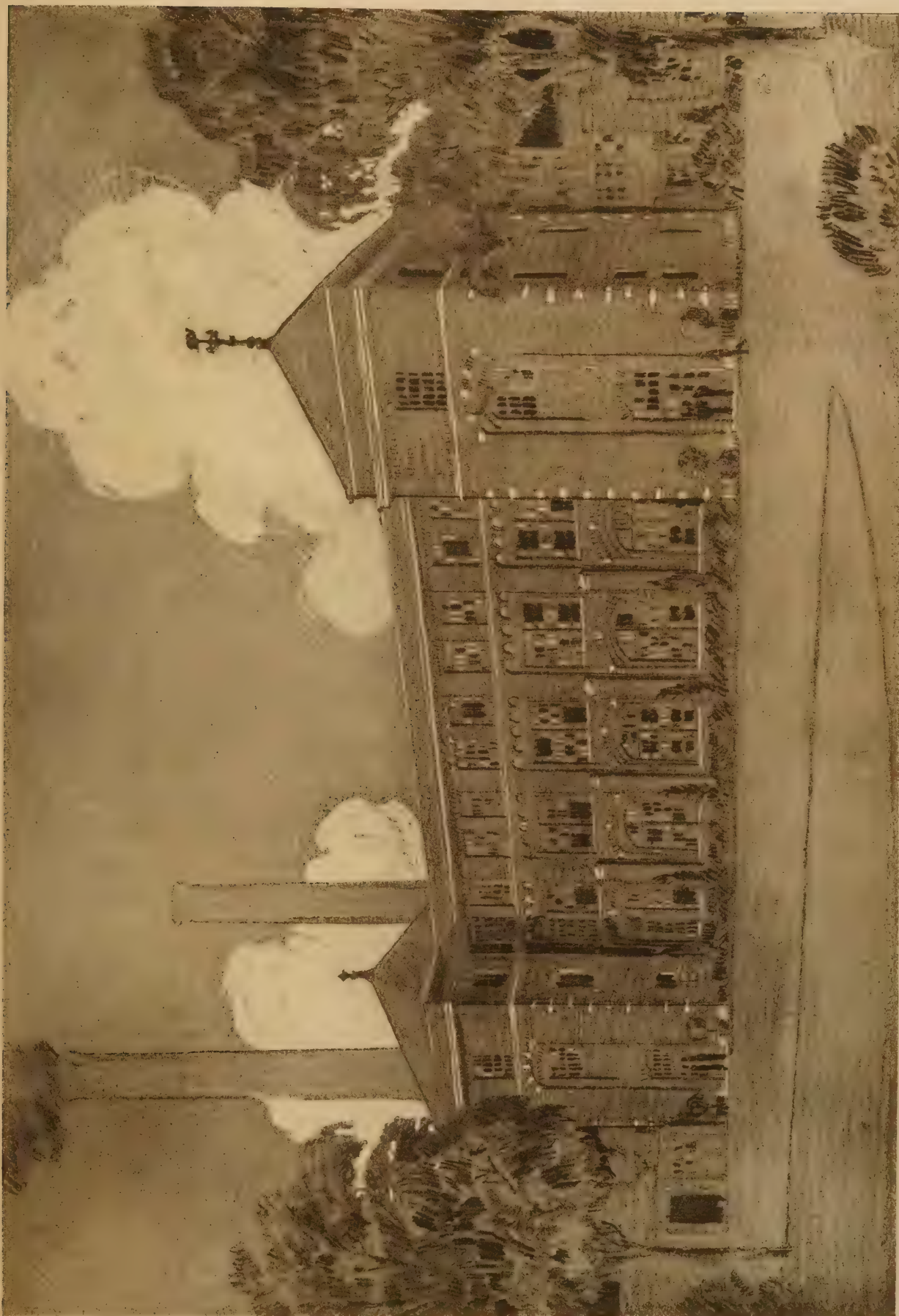
MICHIGAN BOULEVARD, CHICAGO, BRIDGE GROUP OF TALL BUILDINGS.
SHOWING 333 NORTH MICHIGAN BUILDING IN CENTER

HOLABIRD & ROCHE, ARCHITECTS



CHURCH OF OUR LADY OF POMPEI, NEW YORK CITY

MATTHEW W. DEL GAUDIO, ARCHITECT



BUILDING FOR LITTLE FALLS WASHING COMPANY, LITTLE FALLS, N. J.

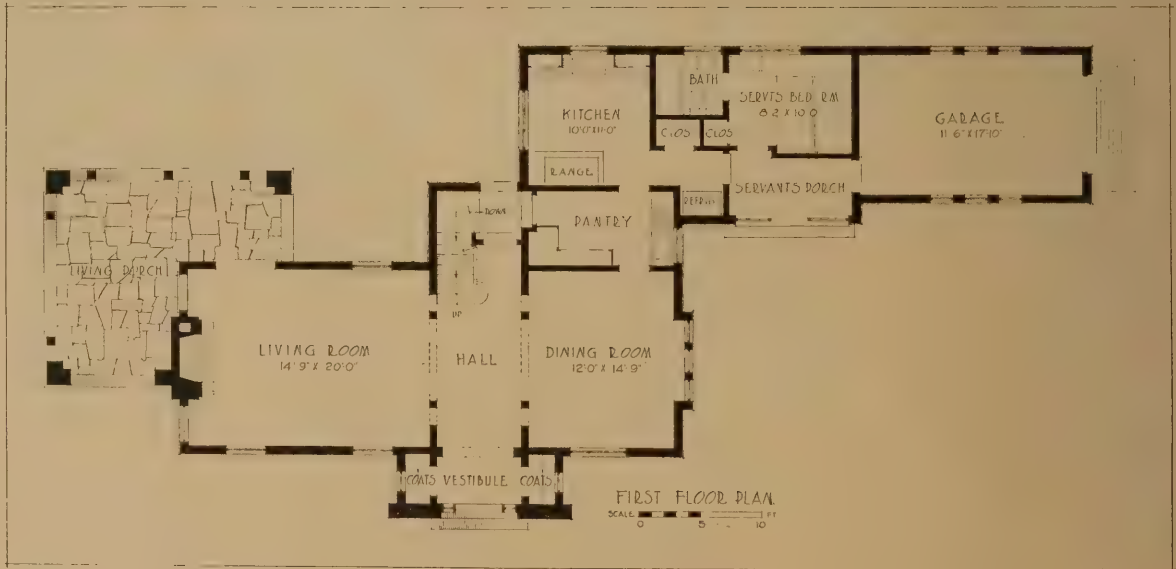
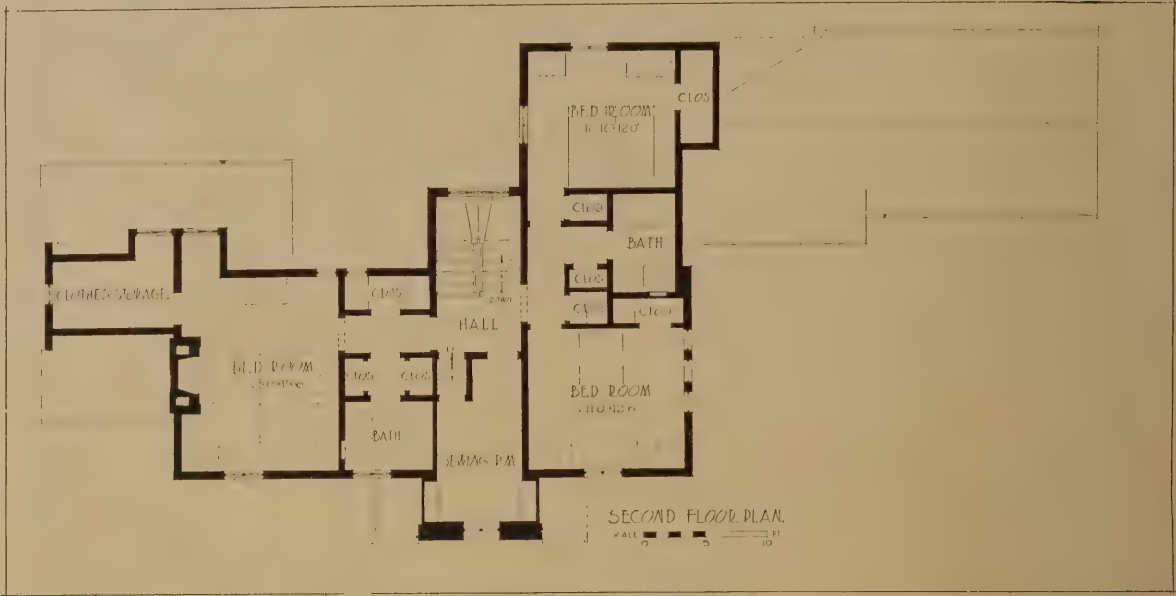
GOODWILLIE & MORAN, ARCHITECTS



HOUSE OF MRS. JULIA D. HAWKINS, MONTCLAIR, N. J.

C. C. WENDEHACK, ARCHITECT

(See plans on back)



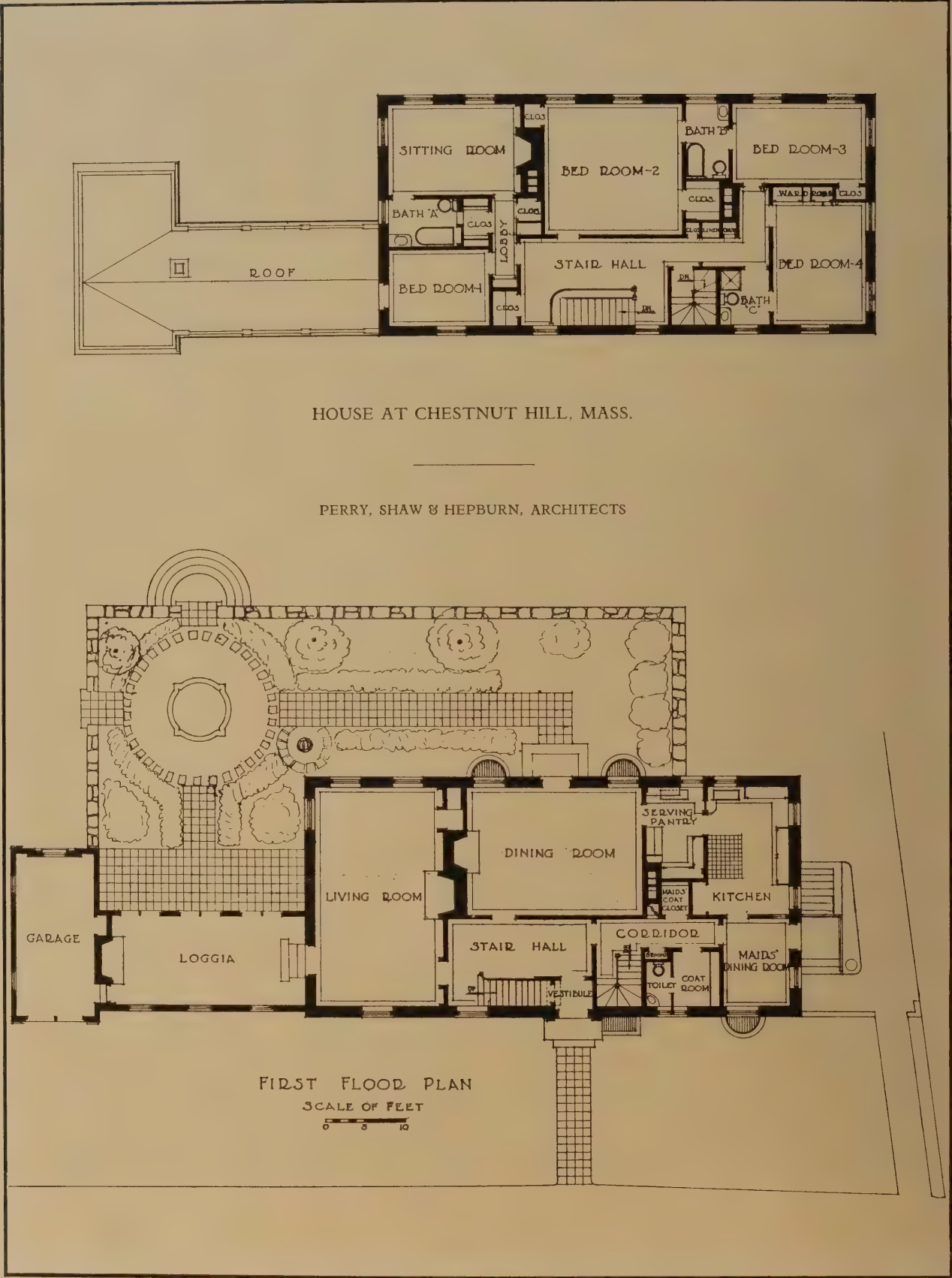
HOUSE OF MRS. JULIA D. HAWKINS, MONTCLAIR, N. J.
C. C. WENDEHACK, ARCHITECT

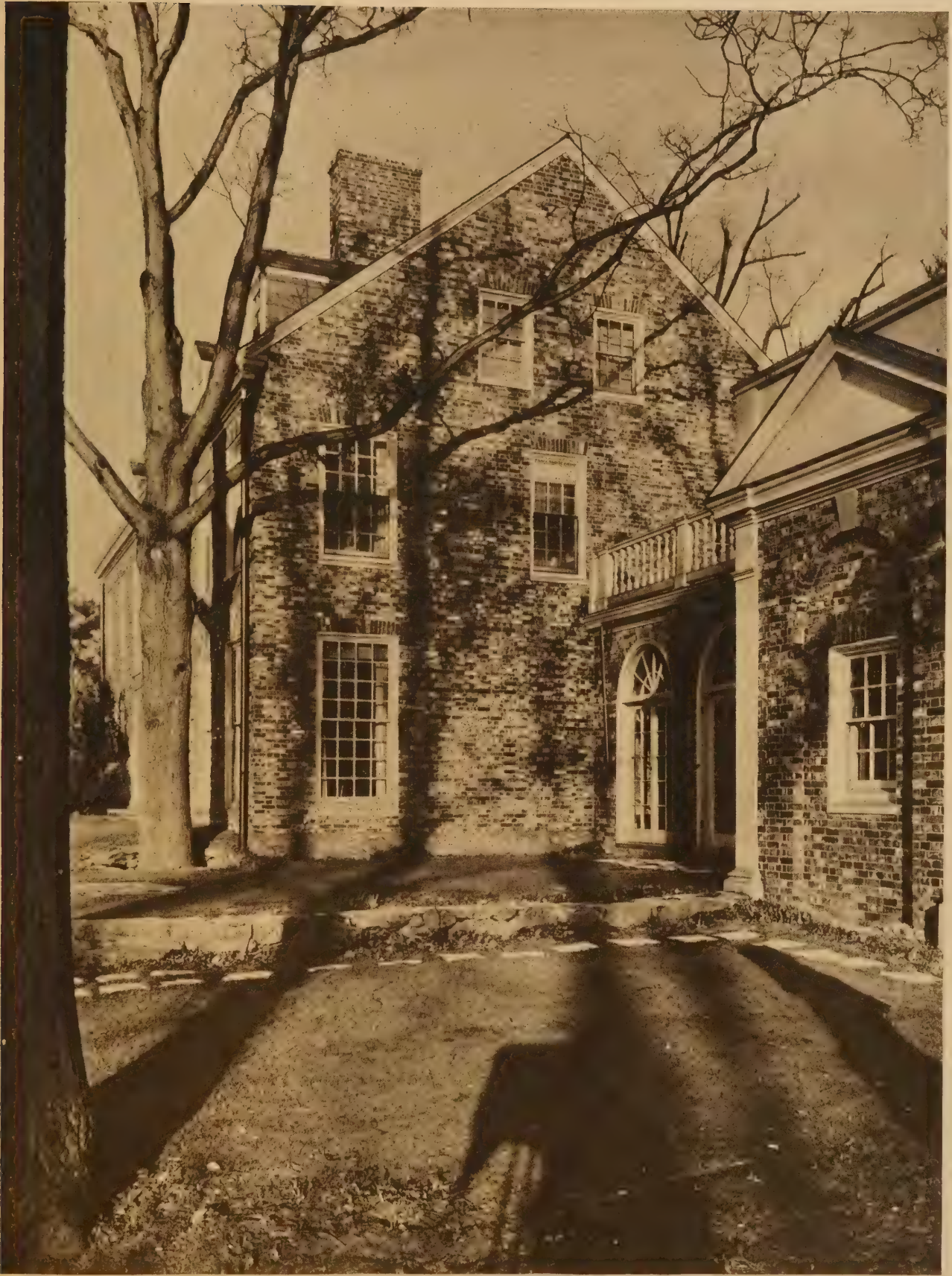


HOUSE AT CHESTNUT HILL, MASS.

PERRY, SHAW & HEPBURN, ARCHITECTS

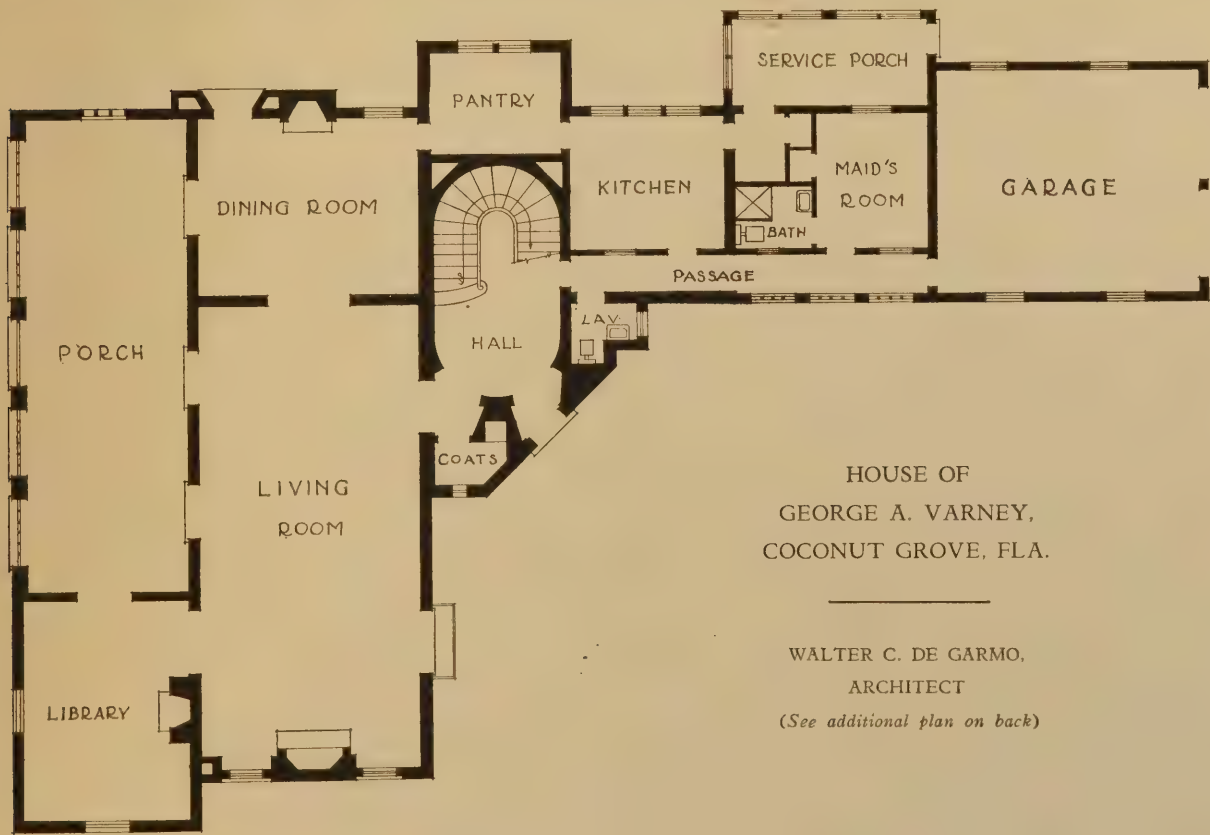
(See plans on back)

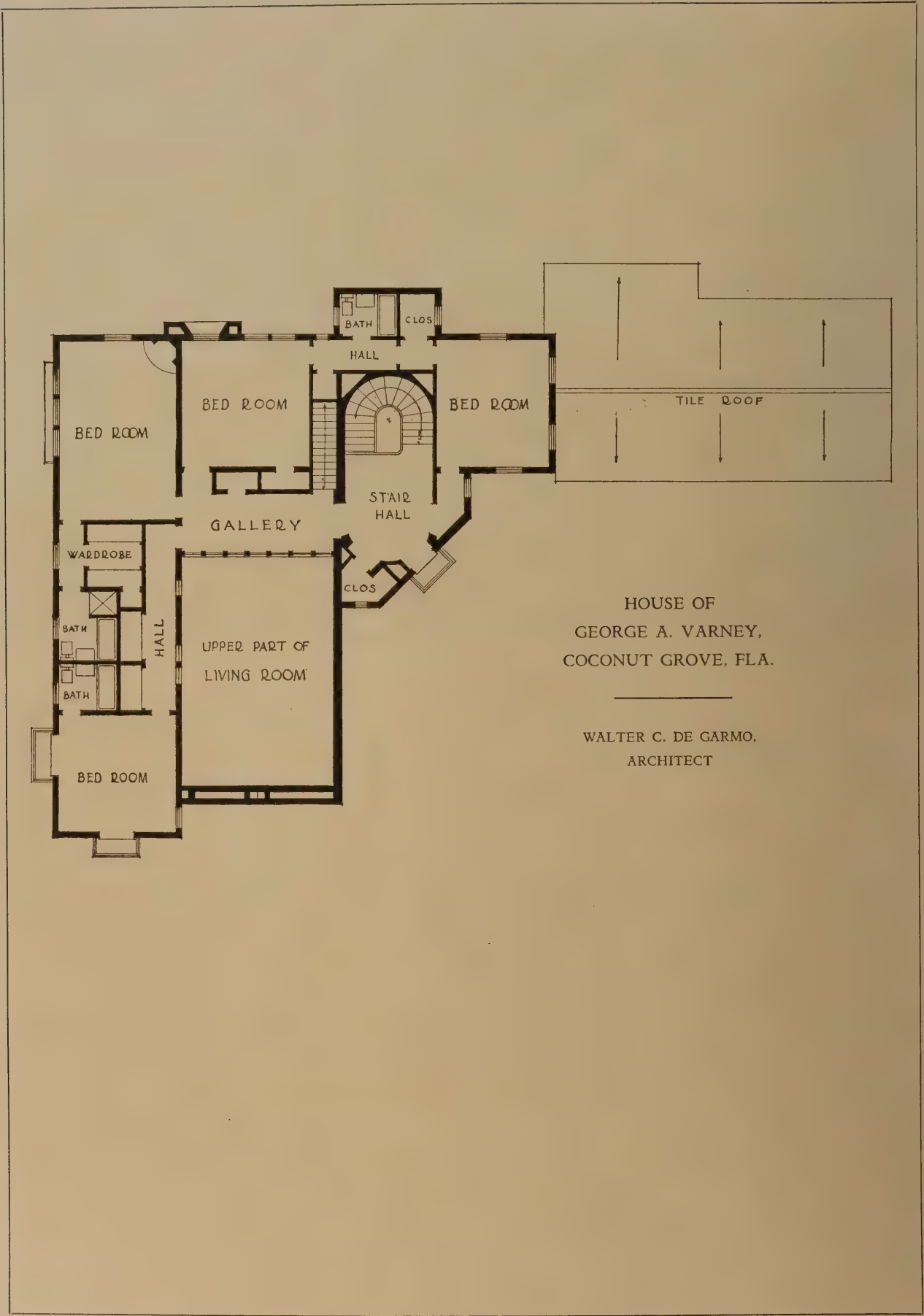




HOUSE AT CHESTNUT HILL, MASS.

PERRY, SHAW & HEPBURN, ARCHITECTS





HOUSE OF
GEORGE A. VARNEY,
COCONUT GROVE, FLA.

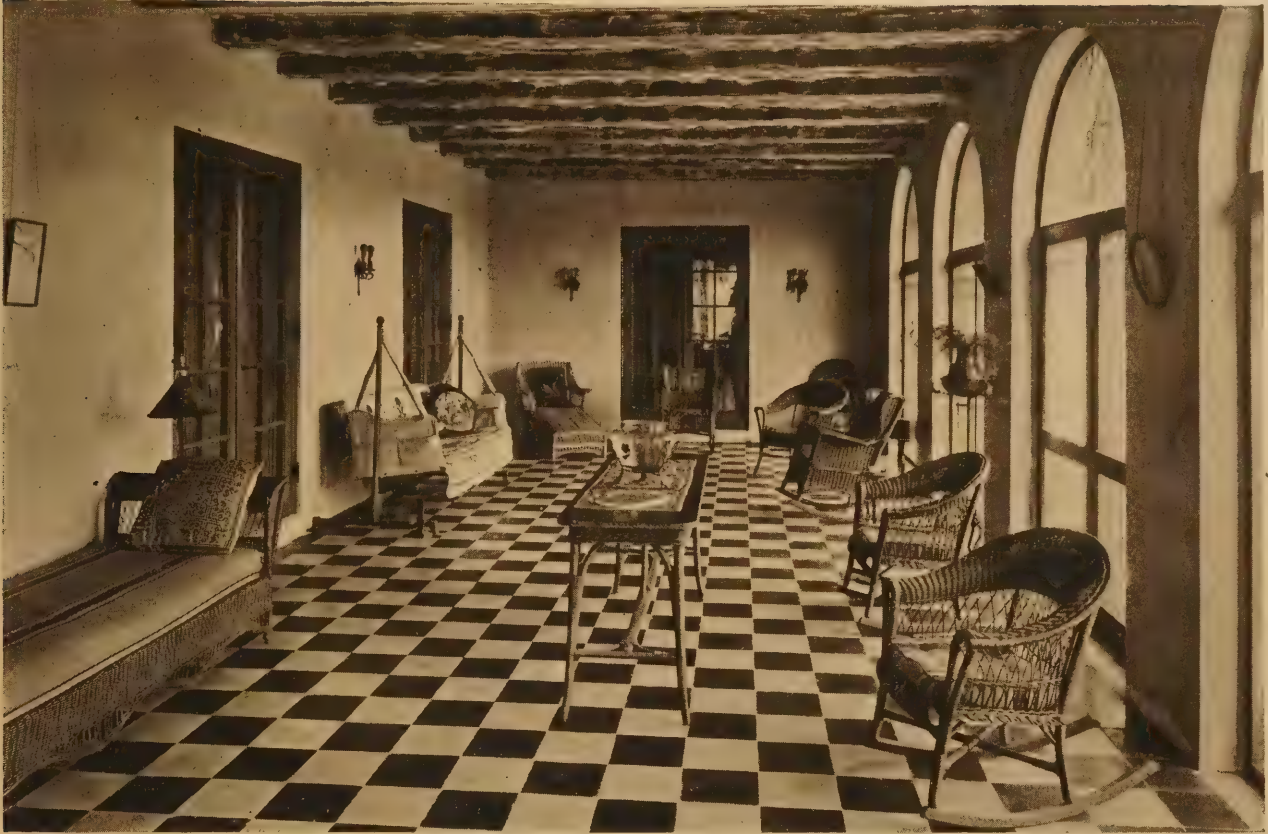
WALTER C. DE GARMO,
ARCHITECT



DETAIL OF PRINCIPAL ENTRANCE

HOUSE OF GEORGE A. VARNEY, COCONUT GROVE, FLA.

WALTER C. DE GARMO, ARCHITECT



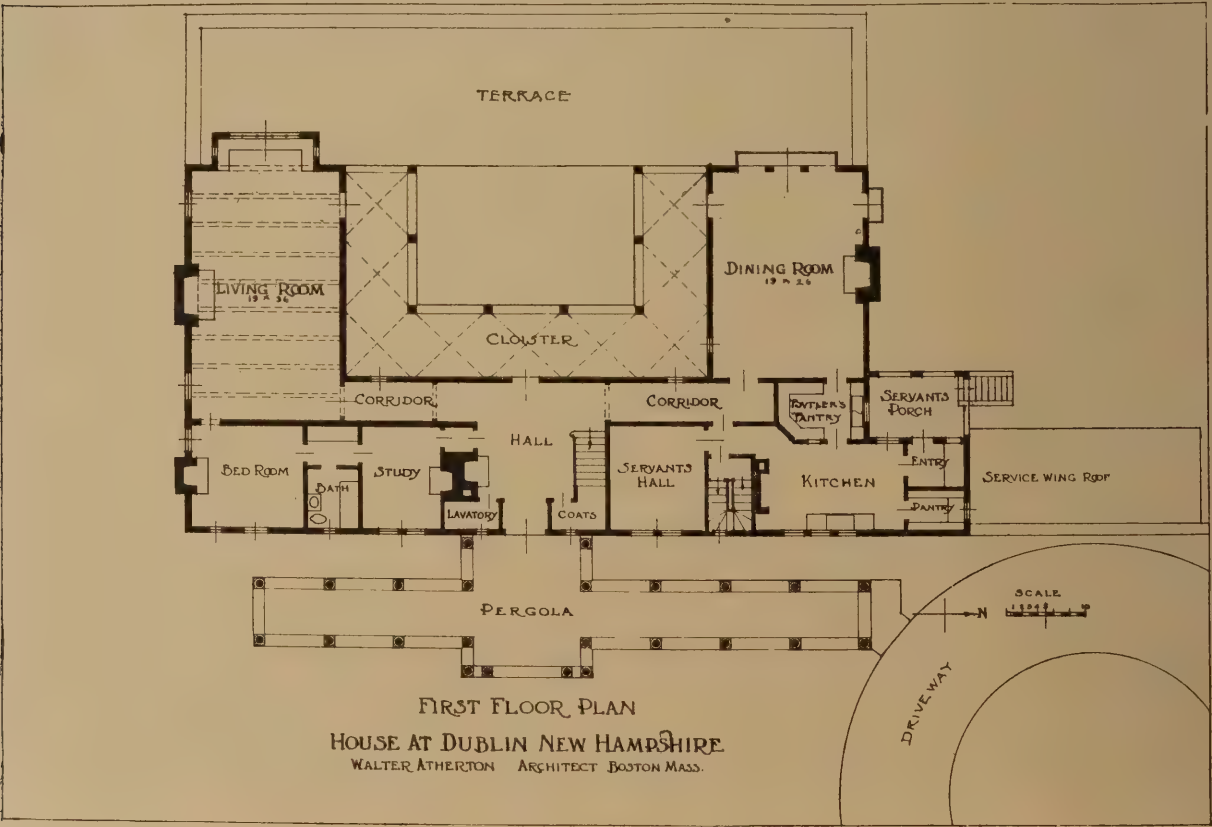
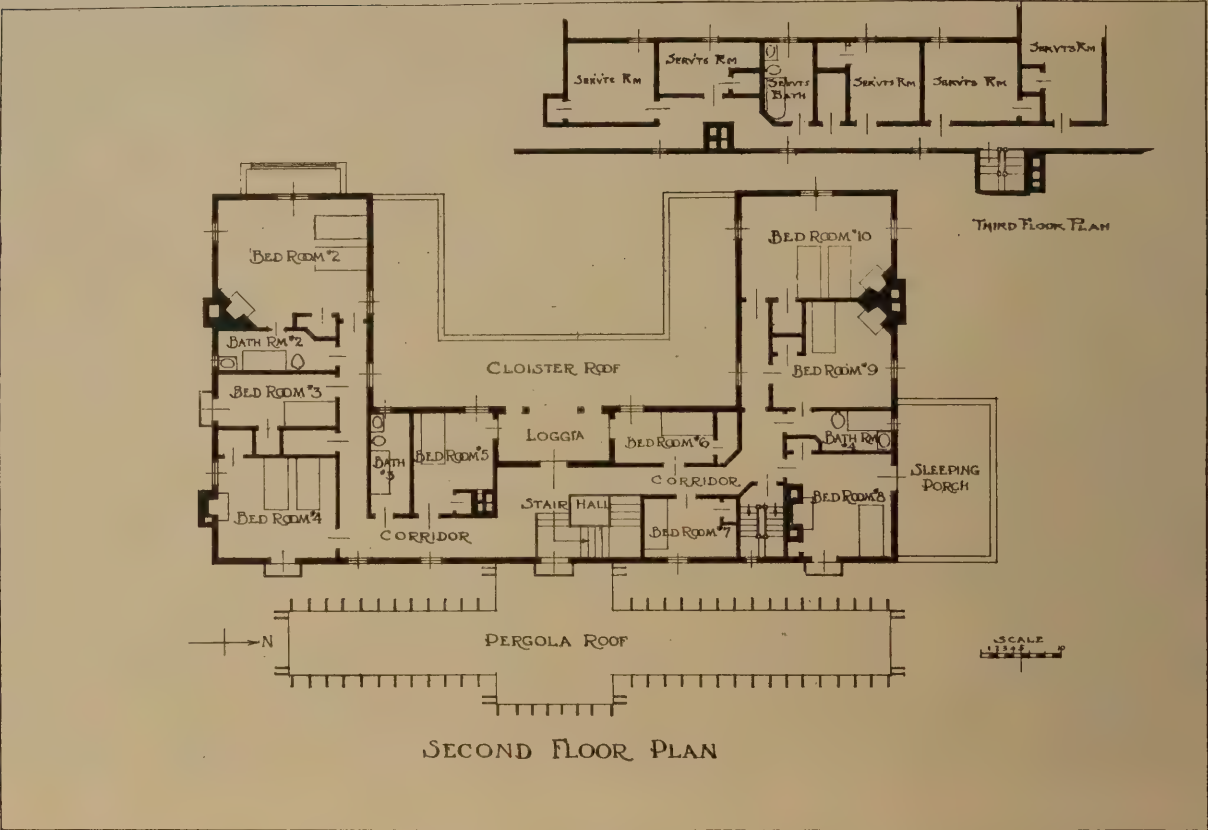
HOUSE OF GEORGE A. VARNEY, COCONUT GROVE, FLA.

WALTER C. DE GARMO, ARCHITECT



HOUSE AT DUBLIN, N. H.—WALTER ATHERTON, ARCHITECT

(See plans on back)





BUILDING FOR PACIFIC EDGEWATER CLUB, POINT LOBOS, SAN FRANCISCO, CALIFORNIA

J. R. MILLER AND T. L. PFLUEGER, ARCHITECTS
(From the original rendering by Hugh Ferriss)



VIA MIZNER, PALM BEACH, FLA.

WORKING PHOTOGRAPHS—SERIES II

FROM THE ORIGINAL NEGATIVE BY DWIGHT JAMES BAUM, ARCHITECT



PROPOSED NEW TWIN OFFICE BUILDINGS FOR CITY AND COUNTY, CHICAGO, ILL.
ERIC HALL, COUNTY ARCHITECT, OF THE FIRM OF HALL, LAWRENCE & RATCLIFFE, INC., ARCHITECTS



OLD TEMPLE GATE, MUKDEN, CHINA
FROM THE ORIGINAL SKETCH BY PROFESSOR FERENC IMREY

ENGINEERING AND CONSTRUCTION

BRIDGE DESIGN AS INFLUENCED BY ARCHITECTURE

THE history of architecture frequently records the names of architects famous as designers and builders of bridges as well as cathedrals and palaces. History also records the associations of "Frères Pontifes" or Brotherhood of Bridge Builders of the eleventh, twelfth and thirteenth centuries. Historical records indicate that the architects of early bridges of note were also the engineers. Separation of the two professions as we know them today was a gradual evolution hastened by the developments in structural materials, and probably most clearly marked by the advent of iron and steel for building construction. Previous to the nineteenth century the materials of construction consisted essentially of masonry and timber. Later steel and reinforced concrete became absorbing studies that emphasized the engineering aspect to the practical exclusion of the architectural and resulted in the definite division of the profession of architecture into the two professions of architecture and engineering. This professional division like a partnership, naturally meant also the division of projects between the two that were formerly controlled by one. Bridge design was one of the projects that gravitated to the engineer. This was a logical course since bridge design, making use of new structural materials, became almost exclusively a matter of structural engineering with scant opportunity for architecture as usually expressed in building structures.

Modern bridges can, and many of them do, admirably combine good architecture and economy in the use of durable materials to obtain a stable structure capable of supporting the loads imposed upon them, and of resisting the external forces of nature. In recent years most bridges of successful architectural and structural design have been the result of close co-operation between architects and engineers, each profession supplementing and supplying the essential qualifications not provided by the other. Bridge design enjoys a unique position as an architectural problem. While lamp standards, balustrades and band courses may suggest features in common with the design of buildings, the similarity usually ends at that point. Bridges are used for purposes en-



PIER DETAILS FOR PROPOSED UNIVERSITY BRIDGE OVER SCHUYLKILL RIVER, PHILADELPHIA, PA.—PAUL P. CRET, ARCHITECT

tirely different from those of buildings. New problems of composition, scale, detail and combinations of material are introduced. Economy and the necessity of using members of certain shape, size and location to resist induced stresses must be recognized. The utilitarian character of the bridge must never be forgotten, for to attempt to force architectural motives where they do not belong results in misplaced architectural details and wasted effort indicative of lack of thorough understanding of the project. Since the work of the architect and the engineer is closely allied from the inception of the operation, it is important that they collaborate from the beginning to avoid placing unnecessary restrictions and limitations upon the work of either.

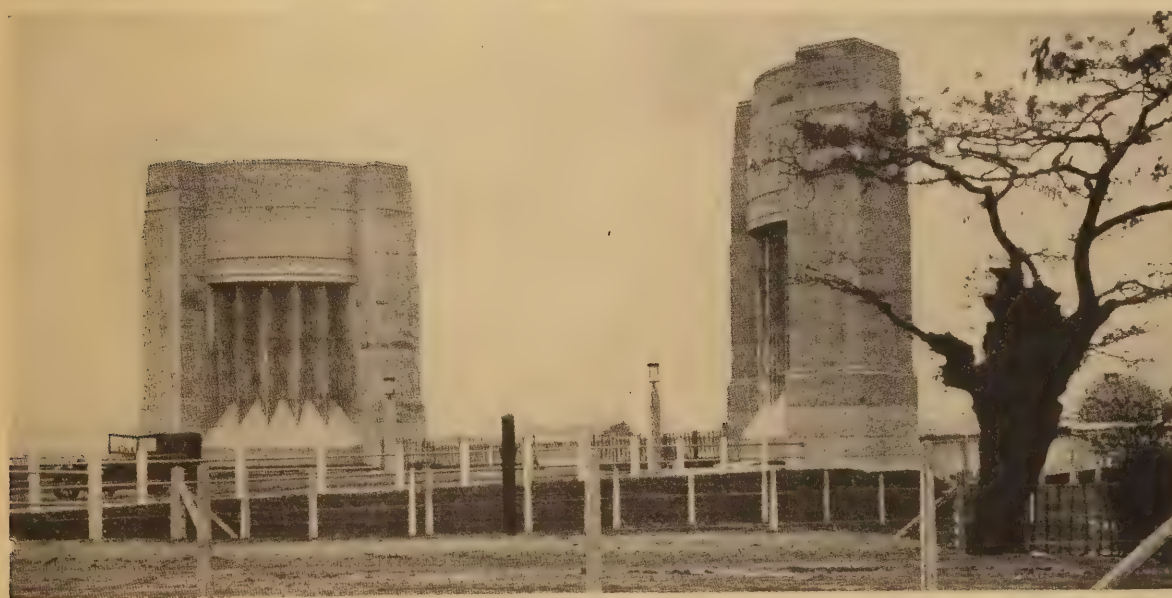
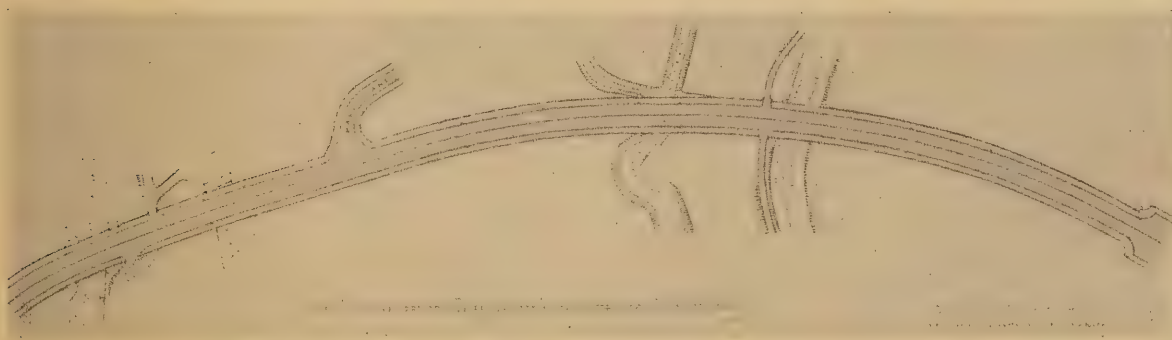
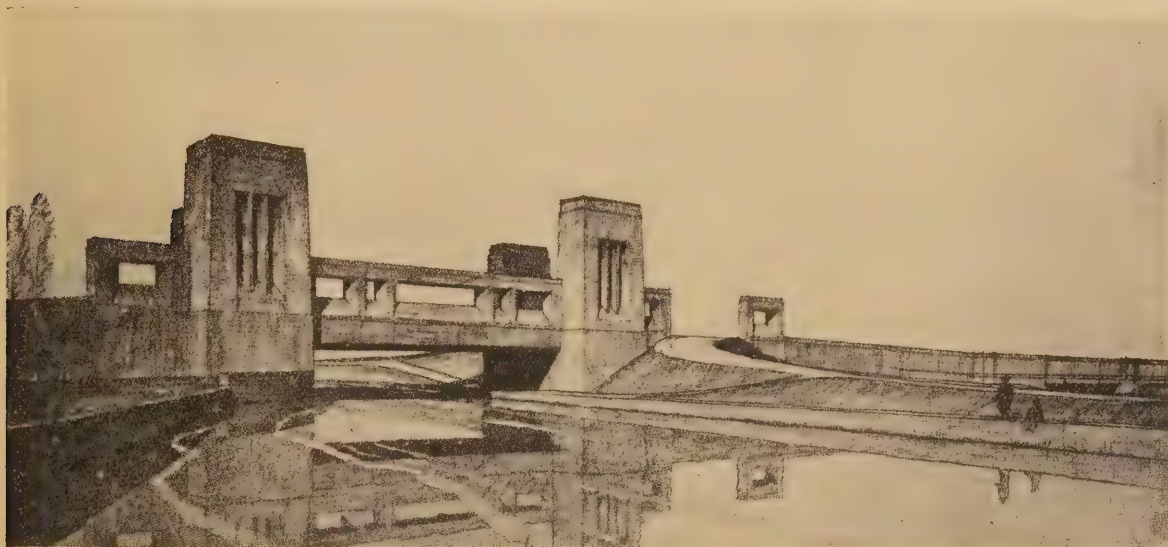
Bridge design has been greatly changed through engineering developments. Early masonry or masonry and timber bridges were limited as to span. Single spans of masonry bridges were largely limited by the permissible height of the arch rise. With the firm establishment of steel and reinforced concrete, bridge characteristics have materially changed. Long spans, previously undreamed of, are no longer un-

usual. Long masonry arches of relatively flat rise are readily built of reinforced concrete. Today the engineer makes use of enormous girders; cantilevers; arches; trusses; and numerous wires compacted into huge cables to suspend the traffic lane supporting members. Physical conditions and unusual requirements cannot daunt him. New materials and methods of spanning gaps in the earth's surface have opened the way to new possibilities in the architectural design of bridges. To architects the problem is not of frequent occurrence and they must proceed cautiously to avoid interjecting the precedents of building design in form and detail. Architects must think and see in terms of bridges and in terms of the materials of which bridges are built.

As Christian Barman has said, "A bridge must turn its face from its daily work and look out idly upon the stream." The beauty of a bridge is for those who do not use it. To make the bridge beautiful to those who do use it, usually requires the addition of features that are not strictly functions of the bridge structure. Sir Christopher Wren truly said, "You have only to take care of a handsome balustrade, upon the piers of which for ornament to the walks you may set urns, pyramids or statues, even what your hearts or benefactions will reach." The theory of "functional beauty," the result of truly adapting an object to its use, does not always hold good in the design of bridges.



ABOVE: BRIDGE OVER THE RIVER FINDHORN. SIR JOHN SIMPSON AND MAXWELL AYRTON, ARCHITECTS. SIR E. OWEN WILLIAMS, ENGINEER (COURTESY THE ARCHITECTS' JOURNAL OF LONDON). BELOW: RICHMOND, FREDERICKSBURG & POTOMAC R.R. CO. RAPPAHANNOCK RIVER BRIDGE, FREDERICKSBURG, VA. J. F. GREINER & COMPANY, ENGINEERS

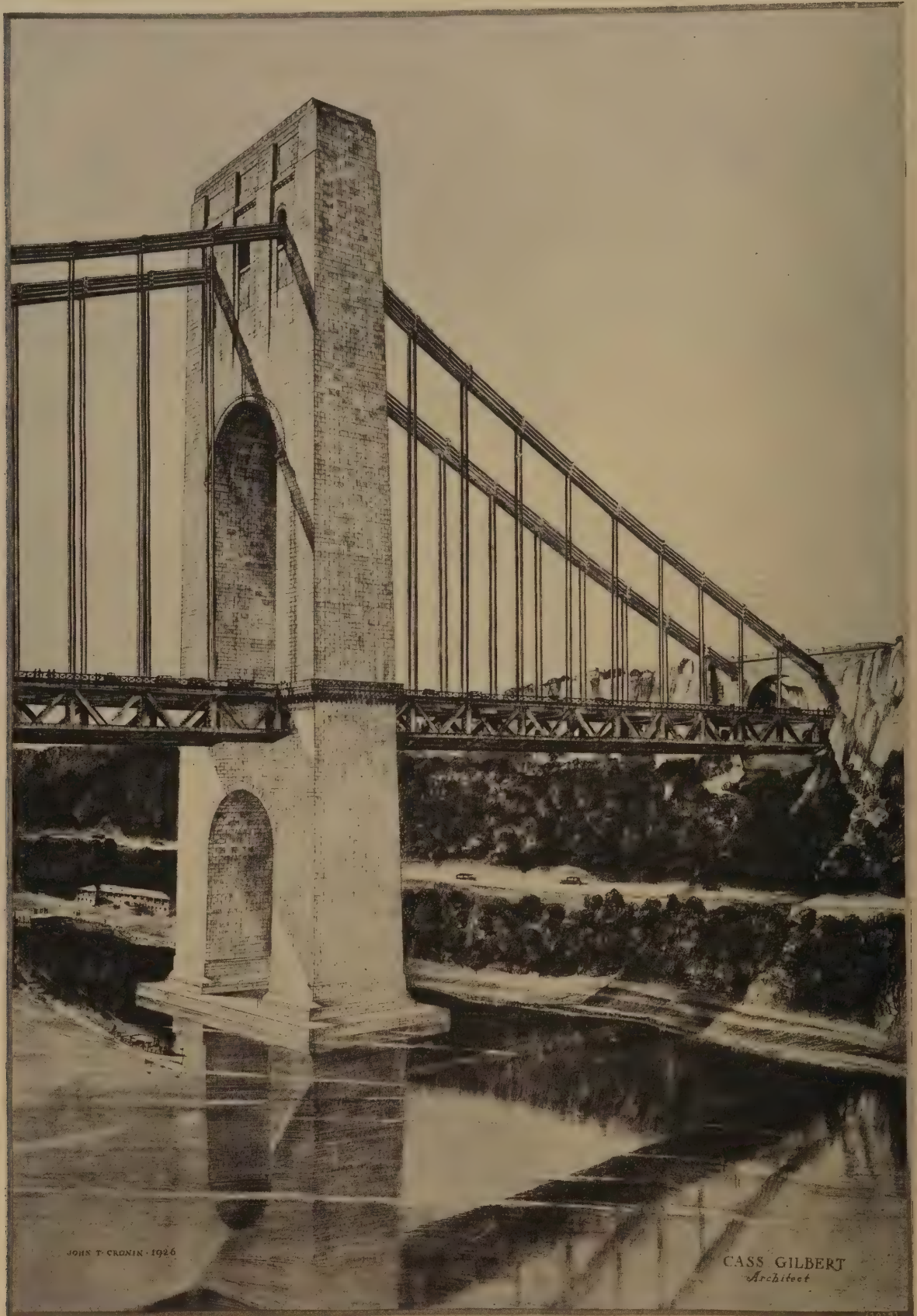


ABOVE: BRIDGE OVER RIVER LEA OCCURRING AT EXTREME LEFT OF VIADUCT PLAN SHOWN BELOW
CENTER: GENERAL PLAN OF VIADUCT SHOWING RELATION BETWEEN BRIDGE SHOWN ABOVE AND PYLONS SHOWN
BELOW

BELOW: CONCRETE PYLONS OF APPROACH AT EXTREME RIGHT OF PLAN ABOVE

LEA VALLEY VIADUCT

SIR JOHN SIMPSON AND MAXWELL AYRTON, ARCHITECTS—SIR E. OWEN WILLIAMS, ENGINEER
(Courtesy of *The Architects' Journal of London*)



HUDSON RIVER BRIDGE, NEW JERSEY TOWER

CASS GILBERT, F.A.I.A., P.N.A., ARCHITECT

O. H. AMMANN, BRIDGE ENGINEER, PORT OF NEW YORK AUTHORITY



ABOVE: HUDSON RIVER BRIDGE NEW JERSEY ANCHORAGE WITH NEW JERSEY TOWER BEYOND
BELOW: BAYONNE, N. J.—PORT RICHMOND, N. Y. BRIDGE

CASS GILBERT, F.A.I.A., P.N.A., ARCHITECT

O. H. AMMANN, BRIDGE ENGINEER, PORT OF NEW YORK AUTHORITY



ABOVE: PROPOSED GREEN LANE BRIDGE OVER SCHUYLKILL RIVER, PHILADELPHIA, PA. PAUL P. CRET, ARCHITECT

BELOW: SOLDIERS & SAILORS MEMORIAL BRIDGE, CAMERON STREET ARCH, HARRISBURG, PA.
 SIDNEY F. ROSS AND WILLIAM GEHRON, ARCHITECTS—J. F. GREINER & COMPANY, ENGINEERS

EXTRACTS FROM REPORT OF NEW YORK BOARD OF FIRE UNDERWRITERS ON THE SCAFFOLDING FIRE AT SHERRY-NETHERLAND HOTEL, NEW YORK

THIS fire which burned for nearly nine hours and for which five alarms were sounded; the practical helplessness of the Fire Department in combating the fire; and the danger to the firemen, serve to bring again to the forefront reforms which the Underwriters have advocated, as well as some entirely new problems.

The Sherry - Netherland apartment hotel is of the modern fire resistive type covering an area at its base of 12,-000 sq. ft. From the 17th to the 23rd floor setbacks reduce the floor area to 3000 sq. ft. and a tower of this area extends to a point 38 stories above the street level with a cupola extending approximately 3 stories higher. The floor arches are of cinder concrete construction. The exterior walls are of hollow tile with 4" brick facing and terra cotta trim. There are two stairways, enclosed in hollow tile, extending from the sub-basement to the tower, one of which also extends to the 38th floor. Four elevators extend to the 38th floor with the machinery to operate them located directly above. There are no smoke-proof fire towers in the building.

The construction of the building had progressed to a point where the exterior was practically finished except for the top portion of the tower, where considerable frame scaffolding surrounded the building. Extending from this scaffolding down a U-shaped court to the 1st floor there were two temporary material hoists. These hoists with their enclosures were entirely of wood and were built close against the outside of two of the court building walls. Combined, they were approximately 25 feet long and 12 feet wide and were so constructed that they contained a large mass of inflammable material.

A nearly completed standpipe system was the only fire protective equipment within the building. This system consists of two eight inch standpipes extending from the sub-basement to the 23rd floor, with one also continuing as eight inch to tanks in

the top of the tower. Besides the tanks in the tower, intermediate tanks were installed on the 23rd floor and on the 12th floor with cross connections between the two standpipes in the sub-basement, on the 9th and on the 22nd floors. When completed the system will be equipped with a fire pump in the sub-basement directly connected into the line and also four six inch siamese connections on the streets for the Fire Department. The system was completed at the time of the fire to a point where all of the tanks had been installed and the eight inch standpipe reached to the tank in the tower. The standpipe, however, had not been connected to the tank and was uncapped. The eight inch cross connection on the 22nd floor was not completely made up and the Fire Department reported that until its men in-



SHERRY-NETHERLAND HOTEL SCAFFOLDING FIRE
(Copyright, 1927, P. & A. Photos, Inc.)

serted a piece of pipe it was open at this point. Inspection of the standpipe system shortly after the fire, disclosed that all four of the six inch siamese connections were practically finished, but only one of these connections had been extended to the street and provided with the regulation siamese head; all of the other connections terminated in the building and were unplugged except for one in the basement.

The cause of the fire could not be determined. It was first noticed from the street at 7.45 P.M. April 13, 1927, that the scaffolding at about the 38th floor was ablaze. The Fire Department, not know-

ing of the existence of the standpipe siamese connection, made connections to the 2½ inch hose outlets of the standpipes on the first, second and third floors, but was unable at that time to send water to the upper portion of the building where it was needed, because of the open 8" pipe on the 22nd floor. The fire spread quickly throughout all of the scaffolding surrounding the tower and to the readily inflammable material hoists on the building.

The tower of the building extends over 500 feet high and it was practically at the extreme of this height that water was needed. Theoretically under the conditions that existed, a pressure close to 300 pounds per sq. in. would be required to force water to this height and yet have sufficient additional pressure to provide an effective hose stream.

The Fire Department has expressed the opinion that they could have delivered water to the top of the building if the standpipe had been in proper working condition. They report that because of the uncapped connection on the 22nd floor it was impossible to obtain or maintain the pressures required. Operations were further hampered because of the lack of a suitable elevator or hoist to carry firemen and hose to the upper floors.

The fire burned the material hoists, runways and scaffolding as far down as the 13th floor before it was extinguished. During the fire, firebrands and falling blazing timbers fell steadily upon the roofs of buildings within a radius of several blocks. The damage was confined chiefly to the exterior of the building except for the complete destruction of the elevator machinery at the top of the tower. The four inch brick facing in the court from the 13th floor to the top of the tower, as well as the terra cotta trim and window sills, were spalled and cracked by the heat or broken by falling timbers. Windows in this court had been glazed with heavy plain glass set in hollow metal frames and practically every pane of glass was broken by the heat or falling timbers. An ornamental terra cotta finished arch across the court at the 23rd floor level was damaged by a timber falling from above. At least three eight inch H-columns at the top of the tower, which had not yet been covered with fireproofing, buckled either because of heat or because of extra stress placed upon them when other diagonal members expanded. Estimates place the loss at about \$200,000.

CONCLUSION

The practice of erecting large combustible hoistways, scaffolding or similar structures either within or on the outside of a building of such height, as is generally employed, with little thought to fire preventative or fire extinguishing equipment, is deplorable. Such structures are an extreme hazard not only to the building for which they were erected but also to other buildings in the immediate vicinity. At least the supporting members and enclosure of such

structures should be of incombustible material and be protected by fire extinguishing equipment.

Inflammable material piled upon the various floors, the more or less common use of open salamanders and other portable fire heated appliances, and smoking by the workmen should be sufficient reasons to require some practical portable fire fighting apparatus and the maintenance of a fully enclosed elevator or hoist so that apparatus could be quickly sent to any point. It is a recognized and undisputed fact that the first few minutes are the all important ones in fire fighting and while a forty gallon portable chemical may be all that is necessary to extinguish a fire in its incipency, it may require the best efforts of the Fire Department and its equipment to extinguish it later. The effective operation of the Fire Department in tall buildings is dependent upon the standpipe system for extinguishing fires above the 7th or 8th floors, and the seriousness of neglect to install and maintain such systems in working operation is apparent.

Columns at the top of the tower which were not protected by fireproofing material were damaged. Those which were protected by concrete were not affected and demonstrate the already conceded need of fireproofing the steelwork. Often it is found that all the structural steel in a building in course of construction has been protected, except for the main columns on the first floor, which are frequently left unprotected, as they are to be provided with some special and ornamental covering. It would seem a matter of safety at least to cover these columns by a suitable temporary fireproofing material until such time as they are ready to be protected permanently.

The expense of the maintenance and operation of the Fire Department is borne by the tax payer and it would seem that the extra burden which would be caused by equipping the Fire Department with apparatus necessary to combat fires in the upper portions of tall buildings, is not just. A limit should be placed upon the height of buildings where the responsibility for successfully combating fires would rest with the Fire Department equipment. In all buildings extending beyond this limit, the responsibility for adequately protecting such extra heights should be placed on the owner and builder. Buildings in this class under construction should be protected by equipment the equivalent of that required for the permanent installation. This would mean that not only should the standpipes be installed as the building progresses but that the fire pump or pumps must also be installed and an enclosed elevator made accessible for Fire Department use.

The city authorities should also consider the requirement of smoke-proof fire towers in multiple residence and hotel buildings. It is as important that the occupants of multi-story residence buildings be provided with safe exitways, and firemen afforded safety zones, as in the case of business buildings.

*James Gamble Rogers, Inc.,
Architects; Marc Eidlitz & Son,
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EVERYBODY'S BUSINESS

By FLOYD W. PARSONS

MANY industries now pursue practices that are destructive to health. Eventually those who follow this road will find themselves at odds with public opinion and will be forced to reform their ways. No factor affecting the course of business exerts such power and is so hard to oppose as the common desire on the part of the average citizen to preserve his physical well-being.

A growing appreciation of the necessity for moistening as well as heating indoor air in the cold months may likely force us to go back to warm-air heating in our homes and working places. It is difficult to condition air properly at a reasonable cost in any other way. Likewise the illuminants of the next generation will be selected largely for hygienic reasons, and whether this is cold light produced by the electrically excited vapors of neon and nitrogen, or rays from a filament lamp in a special glass bulb which allows a desirable mixture of ultra-violet rays to pass through, the ultimate outcome will be a radical change in methods.

Race betterment is only just now commencing in real earnest. In no other field of activity are the possibilities so great. Our eyes are open to the folly of piling up dollars without storing health at the same time so as to perpetuate the ability to enjoy recreation. Out of the million people who die in the United States every year, more than 800,000 succumb to diseases that are preventable. It is in this thought where lies the threat to the architect who does not comprehend the situation.

No matter what may be our vocation, it is essential that we commence to think in terms of conditions 10 or 20 years from now. Cities like New York and Chicago are already worrying about measures to safeguard health in 1950. Chicago's sewage and sanitation program calls for an expenditure of \$120,000,000. More than 225 sewage treatment projects are under way in our country.

On every side we are commencing to feel the restricting influence of health measures on freedom of action. The job of supplying adequate sewage a few years hence will be such an enormous task that every gallon of water will be metered so as to reduce the per capita consumption. That this will save tens of millions of dollars is clearly evident from the fact that the individual in many cities now consumes 275 gallons of water per day—at least twice as much as is necessary.

Then there are the problems of light and noise. Having had to come indoors to earn our daily wage has placed a serious strain upon human eyes. Seventy per cent of our people have defective vision. Just as water consumption will be cut in half, the

total wattage available per person for lighting will be doubled. convenience-outlets will be trebled and the filament lamp without a shade will be an oddity. Man is visual, and unlike many other animals, cannot depend on the sense of smell to guide him through life, and unfortunately, the misused eye does not protest in such forceful fashion as does the injured tooth.

And as for noise, it is but a natural outcome of our present machine age. Devices are now available to use in measuring not only the amount of noise at any one point, but the intensity of the noise blanket that lies over an entire city. Busy corners in some of our large cities produce 50 units of noise which is enough to destroy half of our normal hearing. On top of a 30 or 40 story building at this same corner, the noise intensity will measure only 10 or 15 units, and this means a loss of approximately 10 or 15 per cent of hearing. Generally speaking, 100 units of noise is so deafening that it precludes a person hearing any other sounds.

Noise not only affects health, but it causes a large loss to business through the distraction of attention. Riveting machines, sirens on fire engines, bells on ambulances and police patrols are all a source of expense to corporations. A noisy environment means the use of more energy in talking, while night noises cause a loss of sleep. Conversing on a railway train or in the subway requires an expenditure of more than 100 times as much energy as in a quiet room.

It is for such reasons that present types of riveting machines and other noise producers will be banned completely. Architects in designing buildings will no more think of neglecting to consider sound-absorbing measures and devices than they will provisions for adequate supplies of heat and water. Street and subway cars will have noiseless wheels and coupling connections, and in office and factory, every machine from typewriter to drill will operate in comparative silence. Interior surfaces will be covered with materials having sound-absorption qualities. In the silent workshop the covering material will have not only a high absorption coefficient, but will be so designed with indentations or folds that there will be more than a normal absorbing area. Such rooms will be "flat" or "dead," while in auditoriums, churches and theatres, the aim will be to preserve rather than eliminate resonance. Noise will be attacked both from the point of origin and the point of absorption. As a result office routine will be accelerated, human energy conserved, costly mistakes reduced and the human body released from its present use as a sound shock absorber.

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THE LAW AS TO ARCHITECTURE

By CLINTON H. BLAKE JR., of the New York Bar

AN architect recently wrote me the following letter:

"Some three years or so ago, a local board made a contract with an architect for additions to a building, part of which was erected at that time and the balance at some later time; the plans being prepared for the entire scheme. The time has now arrived for consideration of the work of the final unit, but due to changed conditions the work now contemplated is to be completely changed from the original plans and the plans as at that time made are entirely useless. There was a contract made at the time between the architect and the board specifying that the second part of the program would be delayed until a suitable time, but that a payment of two-fifths of his commission would be made for the plans of the uncompleted portion.

"The original portion of the scheme was built as planned, but the services of the architect were far from satisfactory and four out of the five members of the board are absolutely opposed to completing the work with the same architect. The attorney who has been advising this board says that because a payment of this two-fifths has been made the board are tied up with the architect for any work which may be done in connection with this second unit, notwithstanding that the proposed building is to be entirely different from the plans as made. His opinion is that the architect must give a waiver to the board before they can proceed on the new work with a new architect, and if such waiver cannot be obtained then they have to continue with his services.

"Another attorney, who is supposed to know something about such cases, gives his opinion that because this architect has already been paid for his plans according to his contract and that the proposed new unit is entirely different from his original scheme, so that such plans are not possible of use, it automatically cancels the contract; especially as the services of such architect were not satisfactory. If the original scheme had not been revised and the work now contemplated was to be as originally planned then there might be some point to the argument that the board were tied up under the original contract even although his former services were unsatisfactory."

The above letter raises an interesting question. The contract in the case referred to, as I understand it, provided, in effect, that the architect originally appointed was employed to carry through the work to the completion thereof. The only modification as to this was the proviso that, on the portion of the work which was not carried to completion at the time the plans were prepared but was left for future attention, he should receive at the time but two-fifths of his fee. This two-fifths was paid.

The contract did not provide, I understand, for the dismissal of the architect or give to the owner specifically any right to terminate the architect's employment, upon agreed terms at any point in the building operation.

Under these conditions, we have presented to us the problem of what the rights of the architect may be, where he is employed to carry through a job to completion and paid a portion of his fee, with the understanding, in effect, that the balance will be paid, when and if the final unit on the job is proceeded with. Can the architect in such a case be dismissed, if the owner desires to employ another? It is clear that, unless there are special circumstances,

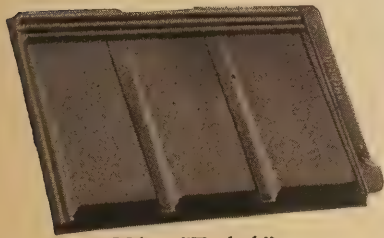
an architect so employed is entitled to the rights given him under the contract of employment, and that the owner cannot dismiss him, before the completion of the work and have the work completed by another, unless he makes a proper adjustment of the claim of the first architect. The question here is largely whether this general rule should be modified, by reason of the fact that the owner has decided to change entirely the scheme for the final unit and will not therefore make use of the plans prepared for it by the architect whom he first employed. If he were to go ahead and use these plans, clearly, he would be under obligation to reimburse the architect. If he does not use the plans, however, and has an entirely new scheme developed by another architect, is he relieved from his obligation to make payment to the first architect for the unpaid balance on account of his fee?

The case is an unusual one, comparatively speaking. In my view of the matter and on my understanding of the facts, however, I believe that the owner is not justified in proceeding with another architect, without paying the first architect the final three-fifths of his fee on the new unit. This three-fifths will not become payable, unless this new unit is proceeded with. When, however, it is proceeded with, the owner should, as I see it, do one of two things—either have the work carried out in accordance with the plans originally prepared and pay the original architect his three-fifths commission; or else, at the least, if he is going to proceed with the new architect, pay the first architect the three-fifths, less what it would have cost him to supervise the erection of the last unit.

The owner should not be allowed, and in my opinion, the court would not allow him, to disregard the rights which the first architect has acquired under his contract and refuse payment of any part of the three-fifths balance, on the ground that the plans, on account of which this three-fifths payment is due, are not to be used but are to be disregarded. The architect has, under a special arrangement, agreed to hold up the payment of three-fifths of his fee on account of them, until the work is proceeded with. He has not agreed, however, that the owner, by having other plans made, may be relieved of all obligation to pay the three-fifths balance due him after the job is completed. The only limitation to which he has agreed is the holding up of the payment, until the last unit is proceeded with. If this is proceeded with, whether it be under his plans or the plans of another, he is entitled to a payment for the work which he has done in connection with it.

The case does not differ in its fundamentals from the situation which would be presented if an archi-

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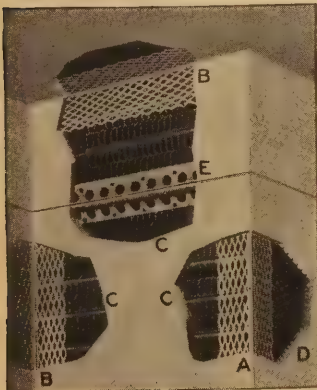


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tect prepared plans for a new building and agreed to withhold his charge for them until the work was proceeded with, and the owner told him he did not desire the plans and had the work done under plans prepared by another architect. There can be no question, I think, that under such conditions the architect who first prepared the plans would then be entitled to his compensation. The present case would seem to be even stronger in some particulars, in that the contract appears to have definitely provided that the first architect should be the architect of the work, if and when it was proceeded with.

In a subsequent letter from my correspondent in this matter, the following statement is made:

"I am given to understand that no provision was made for additional payments in connection with possible changes, so that if he (the original architect) were actually given the work for the new scheme, he would be expected to prepare plans and give full service for the three-fifths commission still due."

It does not necessarily follow that, because the contract did not provide for extra payment for changes, the architect would be bound to make any changes called for, including an entirely new scheme, on payment to him of the balance of the original fee originally agreed upon. Such a construction would not, I believe, be given to the contract. He has done all that he is called upon to do, when he has prepared the complete plans for the final unit, except such services as he may be called upon to give in the way of supervision.

If the owner decides to adopt a new scheme and desires new plans, and the first architect were requested to prepare them, he would be entitled, I believe, to additional compensation for so doing, in the absence of a specific provision in his contract to the effect that his fee should include and cover all such changes and revisions as the client might request. If his contract is so worded as to make it incumbent upon him to make changes of this kind, without additional compensation, then and in that event, if a new architect be substituted, the first architect should be entitled to recover only the difference between the three-fifths balance of his fee and what it would cost him, not only to supervise the work, but to prepare changed plans therefor, in accordance with the newly-adopted scheme.

I cannot believe, however, that the contract can be so worded as to call for this conclusion. While

there have been cases where architects have agreed that their fees shall cover all such changes as the owner may require, it is an exceptional case where an architect will be foolish enough to enter into such a contract. To do so is to deliberately put his head into a noose held by the client and to place himself at the latter's mercy and subject to any caprice on the part of the client. No architect can afford to do this and no client, as a business proposition, should expect him to do it.

LEGAL DECISION

THE architects entered into an agreement with a Union Free School District in New York State, whereby the architects were to furnish plans and specifications for the construction of school buildings and the School District voted an appropriation of \$125,000 to cover the cost. The architects estimated the cost to be \$95,000. When bids were received, the lowest bid was 47 per cent higher than this cost estimate. The School District abandoned the project, and the architects sued to recover their fee. The court held that the School district might, under the provisions of Section 310 of the New York Education Law, contract with the architects for their services, but that the architects were bound and assumed to know that their right of recovery must be contingent upon the cost coming within the appropriation voted, pursuant to the provisions of Section 314 of the Education Law; that, in view of the fact that the lowest bid was nearly fifty per cent higher than the architects' estimate and in excess of the \$125,000 appropriated, the District was justified in abandoning the project without liability to the architects, except for the preliminary studies.

With respect to the preliminary studies, the court held that the architects were entitled to recover, that the preliminary studies were necessary to enable the Board to secure estimates of cost and that the architects might recover for the proportion of their fee due for preliminary studies, accordingly, notwithstanding the ruling of the court with respect to the balance of their fee and the liability of the District with respect to the project itself.

Pierce v. Board of Education, 125 Misc. 589

THE NEW RENAISSANCE IN METAL WORKING



These great bronze doors, of which Ghiberti himself might well have been proud, close the impressive entrance to the First National Bank of Kansas City. They were executed by Art Metal for Wight & Wight, Architects, who planned the building. The same motif has been carried out in the interior, which is entirely equipped with Art Metal.

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*The great main doors are Ghiberti's work. A less ornate pair at the South Entrance were made nearly a century earlier by Andrea Pisano. But they are embellished by a Ghiberti frieze, erected in 1456

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BOOK NOTES

MANHATTAN, THE MAGICAL ISLAND

GIVEN a good lens, an unusual ability as an artist photographer, and well trained knowledge of what constitutes good architecture, and even sordid Manhattan may be made to look like a magical island. Ben Judah Lubschez has achieved an important result. In fact, he has in his series of views of New York as it may be seen today, made an invaluable contribution to the artistic possibilities of photography, but best of all, created an historical record that is better than we have ever seen in one volume, and one that it will be difficult to surpass.

In every one of the magnificent pictures that Mr. Lubschez has included in this work, the keen observer will be impressed by the artistic skill displayed. The subtleties of good "values," the structural qualities of good composition, and the poetic sense of atmosphere are all shown in Mr. Lubschez's work with a camera. The word photograph takes on a new meaning when one examines the pictures in Mr. Lubschez's book. The only lacking quality that a painter would supply is color, as generally understood. But color as used in the proper sense, is but a relative term, and there may be as good suggestion of color in a monotone as in the most colorful canvas.

It is only an architect that could produce a book to equal this one. Every picture shows the quiet refinement of the point of view. And each one a patient waiting for that one moment in the round of daylight hours when the view could be successfully photographed. Many years spent as an amateur photographer have taught us many things about picture making with a camera. And we recall an incident, the recollection coming first to mind on looking over Manhattan, the Magical Island. We were out one day with the camera, when we chanced on a man whose camera was set all ready for the exposure. We hailed him as a brother photographer, commended his fine choice of subject and asked if he had made the exposure. "No," said he, looking at his watch, "it's not quite ready yet." He told me he had spent almost an entire day studying the subject and that there was but a few minutes when it was just right. He was waiting for that exact moment. That is the essence of picture making with a camera. And Mr. Lubschez has learned that fact and shows it in every one of his pictures.

The book is 9 x 12 inches, bound in full cloth with gilt title, and contains a well written prelude. There are 108 pictures. It is not alone a book to interest the picture lover and those who make photographs but it has an architectural value that is very large. In its present make-up it may grace the library table, become a textbook in photographic

work, but most important of all, an architectural expression of all that is best in the architecture of Manhattan, the Magical Island.

The price of the book is \$15.00 and it is published by the press of The American Institute of Architects.

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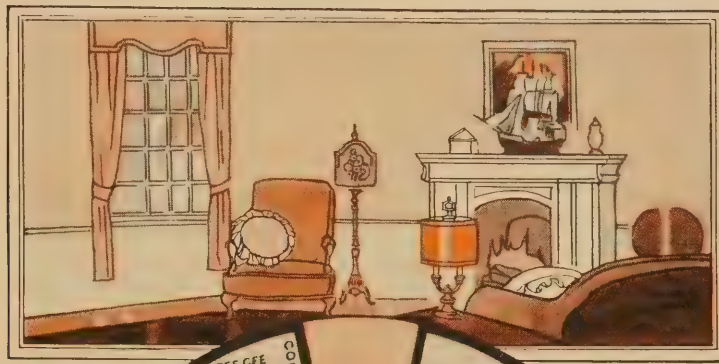
AN OUTLINE OF CAREERS

WE have received for review a book bearing the above title. It seeks to be a practical guide to achievement. The contents are a series of articles by thirty-eight men, eminent in as many walks in life, in which each has achieved distinction,—or success,—in the chosen fields. The entire series of articles, while not perhaps, as the editor claims, reliable as a means of vocational guidance, are extremely interesting reading. The young man who seeks to find a future course in life will find here a mass of suggestion that will, by reason of its diversity, leave him in an attitude of indecision.

The editor states in his introduction that it is evident that there are hundreds of thousands of young men and women who have no one to whom to go for any valuable disinterested information, or who have no near relations through whose acquaintance they may go for inside information. There are many "misfits" in every walk in life. The truth of this is in no better way shown than in the profession of architecture. Many young men in architectural schools are striving to fit themselves as architects. If they would in many instances seek to perfect themselves in the arts and crafts allied to architecture, they could regard the future with more certainty of success. It is the "white collar" job that appeals today, and fitness for a selected profession often receives but scant investigation.

The thirty-eight men, successful in as many different walks of life, setting forth as they do in this work an account of their progress, are of course men who have, at the very start, entered the field to which they were best fitted. Elbert Hubbard wrote, "Blessed is that man who has found his work." That is exactly true. The thing is to find it. It may help to know how so many men have found theirs, but the young man or woman, who seriously seeks guidance in the selection of a life's work, is more often the poorest judge of the proper course. Perhaps this book will help them. In a sense perhaps, it will, but the real test of fitness is the common sense attitude that leads to a right conclusion.

An Outline of Careers. A practical guide to achievement by thirty-eight eminent Americans. Edited by Edward L. Bernays. Full cloth, 430 pp. Size 6 x 9 inches. New York. George H. Doran Company. Price \$5.00.



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For home exteriors. Retains its luster long after inferior paints have gone dead. Economical because of its great covering capacity and unusual durability.

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JAMES R. MARSHALL DEAD

JAMES R. MARSHALL, F.A.I.A., of the architectural firm of Hornblower & Marshall, died at his home at Washington, D. C., on June 2nd. He was seventy-six years old.

Mr. Marshall was born in Carlisle, Pa., and educated at Rutgers College. He was in the office of the Treasury Department's supervising architect from 1871 to 1883, and then formed the firm of Hornblower & Marshall with the late Joseph C. Hornblower. The partnership continued until Mr. Hornblower's death. In recent years he had made his home in Washington with his brother, Dr. Collins Marshall. He was a bachelor.

Besides the National Museum, Mr. Marshall also designed the Army and Navy Club in Washington, and the United States Customs House in Baltimore. He specialized, however, in residences. He was a member of the Cosmos, Chevy Chase and Army and Navy Clubs, a Fellow of The American Institute of Architects and a member of the Chi Phi Fraternity.



MARTIN ROCHE, F.A.I.A., DEAD

MARTIN ROCHE, last original member of the architectural firm of Holabird & Roche, famous as the originators of the skeleton skyscraper type of office building, died of pneumonia at his home in Chicago.

Mr. Roche would have been 74 years old next August. He was born in Ohio and was brought to Chicago as a boy. He was educated in the public schools there and when a young man entered the offices of W. L. B. Jenney. It was there chiefly that he learned his profession.

Mr. Roche was a Fellow of The American Institute of Architects. In 1917 he was appointed a member of the Board of Art Advisers of Illinois by Governor Lowden. He was a bachelor and a member of the leading local clubs.



JAMES HARRISON STEEDMAN TRAVELING
FELLOWSHIP IN ARCHITECTURE

THE award of the Steedman Fellowship in Architecture has been made for the first time since its foundation March 29, 1927.

This Fellowship was established in memory of the late James Harrison Steedman, a distinguished engineer, who lost his life in the Great War. Its foundation is due to the generosity of his widow, of Mexico City, Mexico, and of his brother, George F. Steedman, of St. Louis, Mo.

The judgment of the submitted drawings was held recently in the Washington University School of Architecture, St. Louis, Mo. The jury was composed of three architects chosen among members of

the profession in St. Louis and elsewhere, and consisted of Leon Arnal, Professor of Design in the Department of Architecture, University of Minnesota, Minneapolis, Minn.; Samuel H. Allen, of the firm of Ewald & Allen, St. Louis, Mo., and Angelo B. M. Corrubia, architect, also of St. Louis.

Arthur B. Gallion, a graduate of the University of Illinois, was awarded the 1927 Fellowship, and the second Fellowship, withheld last year but now available, was given to Paul J. Saunders, a graduate of Washington University.



PRIX DE ROME AWARD

THE Prix de Rome Fellowship in Architecture for 1927 has been awarded to Homer Fay Pfeiffer, a graduate of the Yale School of Fine Arts, class of '26, now employed in the office of Walker & Gillette, architects. His design for a Museum of Fine Arts in a Small City was selected by a jury of six.

The Prix de Rome Fellowship entitles the winner to three years' study abroad at the American Academy in Rome and to living and traveling expenses. The total estimated value of the award is \$7,000. This includes \$1,300 in cash each year, together with residence and studio.

Mr. Pfeiffer is 29 years old. His home is in Kansas City, although he presently is employed in New York City. He is the third Yale man this year to win a Prix de Rome Fellowship. The other two were Dunbar Beck and George Snowden, who took the fellowships in painting and sculpture respectively.



APARTMENT HOUSE DESIGN

WE shall have to radically revise our ideas as to just how a typical apartment house looks. Unless we are careful we shall overlook the modest six story structure shown in *Atlantic Terra Cotta* for May, the excellent house organ of the Atlantic Terra Cotta Company, in our amazement at the towering height of the Ritz Tower, also shown in the May issue.

In New York, commercialism seems determined to crowd the domestic structures out of certain sections. And, as if defying this policy, owners are erecting the towering apartment house hotels as bulwarks of defense. Now that architects are compelled, when they build their apartment houses to unusual heights, to heed the mandates of codes and building restrictions, the visitor to New York will find it difficult to differentiate the apartment house from the equally high office building or "tower."

Atlantic Terra Cotta for May presents a number of the recent tall types of apartment houses and a few of the earlier—and comparatively recent types. This interesting publication may be had for the asking, by addressing The Atlantic Terra Cotta Company, 19 West Forty-fourth Street, New York.

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Audubon High School, Audubon, N. J. Architects, Arnold H. Moses & Walter C. Mayo, Camden, N. J.
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2. EXCAVATION

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1134. Architects' and Engineers' Specifications for use of Carney in brick, tile and terra cotta, mortar, A. I. A. File No. 3a4. Specifications for mortar and colored mortar and report of test. One page size, $8\frac{1}{2} \times 10\frac{1}{4}$ in. Booklet "What twelve men said about Carney." Testimonials from architects and contractors who have used Carney in mortar. 20 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

The General Fireproof Building Products, Youngstown, Ohio.

941. Fireproofing Handbook. 64 pp. Size, $8\frac{1}{2} \times 11$ in. Illustrated. Gives methods of construction, specifications, data on Herringbone metal lath, steel tile, Trussit solid partitions, steel lumber, self-centering formless concrete construction.

942. Hardening and Dustproofing New or Old Cement Floors. Gives methods for both metallic and chemical hardening. Form A-541.

Kosmos Portland Cement Co., Louisville, Ky.

877. Kosmortar. A Mason's Cement. A circular describing the properties of this material, tests of strength and directions for its use. 8 pp. Illustrated. Size, $3\frac{1}{2} \times 8\frac{1}{4}$ in.

Louisville Cement Co., Inc., Louisville, Ky.

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4. CONCRETE AND MONOLITHIC CONSTRUCTION

Cement-Gun Company, Inc., Allentown, Pa.

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347. Handbook of Fireproof Construction. An illustrated treatise on the design and construction of reinforced concrete floors with and without suspended ceilings. The Meyer Steel-form Construction is emphasized and tables are given of safe loads for ribbed concrete floors. 40 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

Concrete Steel Co., 42 Broadway, New York City.

1196. Havemeyer Bars and Building Products. Complete description of various products made by this company for use in all types of reinforced concrete construction and fireproof buildings. Specifications for the use of these materials are included. An informative booklet for filing. 40 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

Mitchell-Tappen Company, 16 John St., New York, N. Y.

257. Booklet 20 on Standardized Metal Caging. Description of various ways of reinforcing the concrete fireproofing on structural steel work, with particular reference to Standardized Metal Caging.

Portland Cement Association, 347 Madison Ave., New York City.

595. Concrete Floors—Proposed Standard Specifications of the American Concrete Institute. Specifications with explanatory notes covering materials, proportions, mixing and curing. Plain and reinforced slabs are covered as well as one and two course floors and wearing courses. 18 pp. Size, 6×9 in.

636. Concrete Data for Engineers and Architects. A valuable booklet containing the reports of the Structural Materials Research Laboratories at Lewis Institute, Chicago, in abbreviated form. It is of great value to writers of specifications. 18 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

5. BRICK WORK

American Face Brick Association, 1754 Peoples Life Bldg., Chicago, Ill.

1156. Architectural Details in Brickwork. Series One, two and three. Each series consists of an indexed folder case to fit standard letter file, containing between 30 and 40 halftones in brown ink on fine quality paper. These collections are inspiring aids to all designers. Sent free to architects who apply on their office stationery; to others, 50 cents for each series. Size, $8\frac{1}{2} \times 11$ in.

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The Common Brick Manufacturers' Association of America, Guarantee Title Bldg., Cleveland, O.

1011. Skintled Brickwork. A valuable brochure illustrating the effects secured by skintled brickwork made of common brick. Close-up views showing working details and general illustrations. Price 15 cents. 16 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

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6. FOUNDATIONS

Raymond Concrete Pile Co., 140 Cedar St., New York City.

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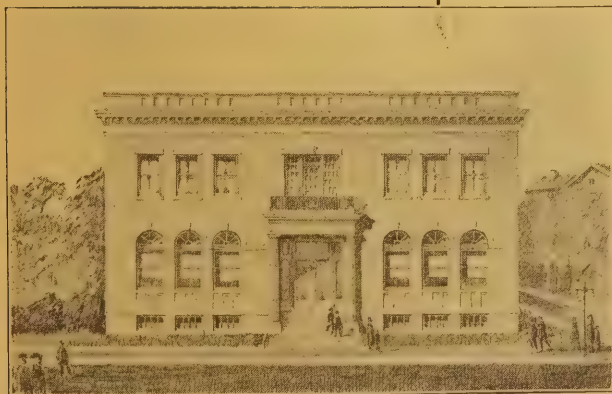


W. WARD WILLIAMS, member of the A. I. A., Pittsburgh Chapter, and prominent among Pittsburgh architects. Mr. Williams has designed many of the churches, schools and club houses throughout Western Pennsylvania.

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"A ROOF FOR EVERY BUILDING"

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual

REFERENCE LIST OF BUSINESS LITERATURE—Continued

7. WATERPROOFING AND DAMPPROOFING

The Philip Carey Co., Lockland, Cincinnati, Ohio.

1035. *Carey Waterproofing and Dampproofing Specifications*. A valuable file of eleven specifications for waterproofing and dampproofing various types of structures with different conditions. 44 pp. Illustrated. Size, 8 x 10½ in.

A. C. Horn Company, Long Island City, N. Y.

972. *Waterproofings*. A folder containing loose leaf specifications for waterproofings and dampproofings for all places, materials and for all conditions. Also service bulletin. 32 pp. Illustrated. Size, 8½ x 11 in.

Sommers & Co., Ltd., 342 Madison Ave., New York City.

1118. *Permanente Liquid Waterproofing* for making concrete and cement mortar permanently impervious to water. Also circulars on floor treatments and cement colors. Complete data and specifications. Sent upon request to architects using business stationery. Circular size, 8½ x 11 in.

L. Sonneborn Sons, Inc., 114 Fifth Ave., New York City.

891. *Dampproofing and Waterproofing. Floor Treatments*. Bulletins of specification data for dampproofing structures and for floor hardening and coloring. Sent on request on business stationery. In folders. Size, 8½ x 11 in.

Truscon Laboratories, Detroit, Mich.

967. *Specifications for Truscon Waterproofing, Dampproofing and Oil Proofing, Book "A."* Complete specifications for all conditions requiring water and dampproofing for concrete, plaster, stucco, stone and other masonry. 14 pp. Illustrated. Size, 8½ x 11 in.

8. STONE WORK

Indiana Limestone Company, 1317 Tribune Tower, Chicago, Ill.

845. *School and College Buildings, Vol. 6, Series B*. A profusely illustrated booklet showing the use of Indiana Limestone in a large number of educational buildings of all kinds and types and in all parts of the United States. 80 pp. Illustrated. Size, 8½ x 11 in.

Indiana Limestone Company, Architects' Service Bureau, P. O. Box 308, Bedford, Ind.

1241. *Indiana Limestone Specification Manual*. This is Vol. III, Series "A-3." Service publication on Indiana Limestone, containing Specifications and Supplementary Data, relating to best methods of specifying and using this stone for all building purposes. It can be obtained from a Field representative of the company or by direct request from architects written on his letterhead. 84 pp. Size, 8½ x 11 in.

9. ARCHITECTURAL TERRA COTTA

Atlantic Terra Cotta Co., 19 West 44th St. New York City.

1345. "A Revival of Lombard Romanesque." Atlantic Terra Cotta Architectural monograph Vol. IX, No. 1, April, 1927. General and detail illustrations of the Euclid Avenue Baptist Church, Cleveland, Ohio. Walker & Weeks, Architects. A brief description is included. A. I. A. File No. 9. 24 pp. Illustrated. Size 8½ x 11 in.

1347. *Chimney Pots*. Second Edition. Detail drawings and color illustrations of terra cotta chimney pots, roof crests and finials. Designs are reproductions of old world types in numerous patterns and sizes. A. I. A. File No. 9. 16 pp. Illustrated. Sizes 8½ x 11 in.

National Terra Cotta Society, 19 West 44th St., New York.

664. *Standard Specifications*. Contains complete detailed specifications for the manufacture, furnishing and setting of terra cotta, a glossary of terms relating to terra cotta and a short form specification for incorporating in architects' specification. 12 pp. Size, 8½ x 11 in.

668. *Better Banks*. Illustrating many banking buildings in terra cotta, with an article on its use in bank design by Alfred C. Bosson, architect. 32 pp. Illustrated. Size, 8½ x 11 in.

The Northwestern Terra Cotta Co., 2525 Clybourn Ave., Chicago, Ill.

96. *Architectural Terra Cotta*. A collected set of advertisements in a book, giving examples of architectural terra cotta, ornamental designs and illustrations of examples of facades of moving-picture houses, office buildings, shops, vestibules and corridors in which Northwestern Terra Cotta was used. Size, 8½ x 11 in. 78 pp.

10. BLOCK CONSTRUCTION

National Building Units Corp., 1600 Arch St., Philadelphia, Pa.

1297. *Straub Cinder Building Blocks, Durability and Utility of*. Report prepared by the Pittsburgh Testing Laboratory after an investigation extending over a period of one year. Among the subjects treated in the report are: Compression, Absorption and Fire Tests; Holding Power of Nails—reports on building, in which Straub blocks have been used; and conclusions. A. I. A. File No. 10a. 2. 14 pp. Size, 8½ x 11 in.

11. PAVING

12. ROOFING, SHEET METAL AND SKYLIGHTS

The Barber Asphalt Co., Philadelphia, Pa.

1249. *Genasco Standard and Economy Trinidad Lake Asphalt Built Up Roofing*; Specifications for use over wood sheathing and concrete, gypsum or tile roof decks. Specifications for Genasco membrane waterproofing and Genasco Asphalt Mastic Flooring are included with detail drawings to show application and quantities of material required for estimating. 16 pp. Illustrated. Size, 8 x 10½ in.

John Boyle & Co., Inc., 112-114 Duane St., New York City.

212. *Boyle's Bayonne Roof and Deck Cloth*. List B-93. A prepared roofing canvas guaranteed waterproof for decks and the roofs and floors of piazzas, sun-parlors, sleeping porches, etc.

The Philip Carey Co., Lockland, Cincinnati, Ohio.

378. *Architects' Specification Book on Built-up Roofing*. A manual for detailers and specification writers. Contains complete details and specifications for each type of Carey Asphalt Built-up Roof. 20 pp. Illustrated. Size, 8½ x 11 in.

The Edwards Manufacturing Co., Cincinnati, Ohio.

1356. *Edwards Sheet Metal Products Catalog No. 75*. A complete catalog of sheet metal building materials including various types of roofing, gutters and conductors, doors and windows, skylights and ventilators and many other products. General illustrations, descriptions, detail drawings and specifications are included. A. I. A. File No. 12. 184 pp. Illustrated. Size 9¼ x 12 in.

Milwaukee Corrugating Co., Milwaukee, Wis.

815. *Milcor Architectural Sheet Metal Guide. Catalog No. 24*. A complete catalog of sheet metal ceilings and side walls, zinc and copper ornaments, cornices, skylights, ventilators, gutters, downspouts and roofing tiles. 64 pp. Illustrated. Size, 8½ x 11 in.

Mohawk Asbestos Slate Co., Inc., Utica, N. Y.

873. *The Roof Everlasting*. A booklet describing the advantages of the Mohawk tapered asbestos shingle with specifications for installation. 20 pp. Illustrated. Size, 3¼ x 6½ in.

Rising and Nelson Slate Company, 101 Park Ave., New York, N. Y.

496. *Tudor Stone Roofs*. This leaflet discusses colors and sizes of Tudor hand-wrought slates; deals with the service given to architects and tells how the material is quarried for each product after careful drawing and specifications are prepared in co-operation with architects. Special grades are described in detail and illustrations are given of buildings with Tudor slate roofs. Contains also specifications of laying slate. 4 pp. Illustrated. Size, 8½ x 11 in.

571. *Tudor Stone Roofs*. A brochure describing the 7 special grades of Tudor Stone and the 7 grades of commercial slate produced by this company with illustrations of many structures on which it has been used. 28 pp. Illustrated. Size, 6 x 9½ in.

13. STRUCTURAL STEEL AND IRON

American Institute of Steel Construction, Inc., 285 Madison Ave., New York City.

1324. *Standard Specification for Structural Steel in Buildings and Code of Standard Practice*. Eighth Edition. Specifications adopted by more than one hundred cities and states in the U. S. and Canada; Code of Practice to eliminate misunderstandings and effect economies. 76 pp. Illustrated. 5¼ x 8 in.

1325. *Allowable Load Tables*. Second Edition. Tables of allowable loads on beams and girders based on 18,000 pound fibre stress and on columns based on 15,000 pounds fibre stress, conforming to the A. I. S. C. Standard Specification. 104 pp. 5¼ x 8 in.

Bethlehem Steel Co., Bethlehem, Pa.

1082. *Bethlehem Rolled Steel Slabs for Column Bases*. Catalog S-17 revised to December, 1925, general information, instructions for ordering, tables of minimum and maximum rolling lengths for various widths and thicknesses and weights and dimensions of rolled steel slabs for column bases. 12 pp. Illustrated. Size, 4 x 6½ in.

1173. *Bethlehem Structural Shapes*. Catalog S-18. Handbook containing complete information on Bethlehem sections, dimensions, weights, and safe load tables for beams, girders and columns. This handbook also contains much valuable engineering data useful in the design of structural steel buildings. 216 pp. Illustrated. Size, 4½ x 7 in.

1178. *Standard Structural Shapes, Shipbuilding Shapes and Car Building Shapes*. Condensed Catalog No. S-19, containing notes, dimensions, allowable variations and properties of American standard I-Beams, channels and angles; shipbuilding channels and bulb angles; car building shapes; rails and miscellaneous steel shapes. 84 pp. Illustrated. Size, 4 x 6½ in.

Carnegie Steel Company, Pittsburgh, Pa.

1336. *Carnegie Beam Sections*. Hand book contains profiles, dimensions and properties and safe load tables for new series, Carnegie Structural Steel beams and column sections. A hand book of value to architects and engineers designing structural steel. 170 pp. Illustrated. Size 5 x 8 in.

Concrete Steel Co., 42 Broadway, New York City.

1177. *The Havermeyer Truss*. Information and designing data for the use of Havermeyer trusses as floor beams to support concrete slabs and metal lath ceilings in connection with structural steel or reinforced concrete structures. Booklet describes the trusses and construction methods. Tables of dimensions, spacing and total safe loads are given. 8 pp. Illustrated. Size, 8½ x 11 in.

Lally Column Co., Inc., 211-249 Lombardy St., Brooklyn, N. Y.

1125. *Lally Columns*. Handbook 1926 edition. Greatly increased safe load table. Construction details for various types of steel construction. The text describes advantages of endurance and economy of the Lally column. Various tests, tables of dimensions, weights, and data on other structural materials are given. 86 pp. Size, 4½ x 6½ in.

The Lincoln Electric Co., Cleveland, Ohio.

1242. *Arc Welding*. The new age in iron and steel. What arc welding is and what it does is completely told in text and illustration. The advantages of arc welding, strength of arc welded steel joints and cost of welding are among the headings covered in this volume. A valuable book on the subject of arc welding. Price \$1.50. 160 pp. Illustrated. Size 6 x 9 inches.

The Rivet Grip Steel Co., 2404 Prospect Ave., Cleveland, Ohio.

1217. *Rivet-Trip Steel Joists*. Booklet describes the distinctive features of Rivet-Grip steel joists, method of erection and contains details, safe load tables and specifications. A.I.A. file No. 13g. 12 pp. Illustrated. Size, 8½ x 11 in.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

13. STRUCTURAL STEEL & IRON—Continued

Truscon Steel Co., Youngstown, Ohio.

641. *Truscon Steel Joist Data Book*. Complete data of steel joists giving properties, dimensions, safe loads, coefficients of deflection, details of connections, specifications, directions for installations. 32 pp. Illustrated. Size, 8½ x 11 in.

1234. *Truscon Steel Joists for Economy*, fire, safety, permanence. Booklet describes fire resisting construction using steel joists, tables of data including safe loads tables are given. 16 pp. Illustrated. Size, 8½ x 11 in.

14. MISCELLANEOUS STEEL AND IRON

American Abrasive Metals Company, 50 Church St., New York City.

1260. *Feralun Anti-Slip Treads* make walkways safe. Folder illustrates several prominent buildings in which Feralun, Bronzalun or Alumalun Anti-Slip Treads have been used. Particular reference is made to Feralun Anti-Slip Treads and their use. 4 pp. Illustrated. Size, 8½ x 11 in.

Colonial Fireplace Co., 4603-4617 Roosevelt Road, Chicago, Ill.

676. *Blue Print Details*. A valuable set of scale details of correct fireplace construction and examples of details to avoid. Instructions for setting the Colonial head throat and damper. Explanations of necessity for summer use of damper. Folder equivalent to 8 pp. Illustrated. Size, 8½ x 10½ in.

H. W. Covert & Co., 137 East 46th St., New York City.

774. *Fireplace and Flue Construction*. A treatise explaining the elements of fireplace construction with details and dimensions and description of dampers and other accessories. 12 pp. Illustrated. Size, 8½ x 11 in.

Ferro Studio, Inc., 228 East 150th St., New York, N. Y.

991. *Craftsmanship in Wrought Iron*. A booklet illustrating wrought iron gates, doors, grilles, entrance gates, lanterns, railings, chandeliers, hardware and fireplace fittings. 48 pp. Illustrated. Size, 8 x 11 in.

The Safety Stair Tread Co., Wooster, Ohio.

1320. *New Stairs for Old*. Folder describes the repair and safe guarding of old worn stair treads through the use of Wooster Safe-Groove Treads. A. I. A. File No. 14-d-1. 6 pp. Illustrated. Size 3¼ x 8½ in.

1321. *Wooster Security Nosing* with feather edged flange. Nosing made in white or yellow brass for use with any material on steps of any material. Sheet contains description and full size sections of nosing shapes. A. I. A. File No. 14-d-2. 2 pp. Illustrated. Size 8½ x 11 in.

15. ORNAMENTAL METAL WORK AND PHYSICAL PROPERTIES OF METALS

American Brass Co., Main Office, Waterbury, Conn.

138. *Price List and Data Book*. Illustrated. Looseleaf Catalog Covers entire line of Sheets, Wire, Rods, Tubes, etc., in various metals. Useful tables. Size, 3½ x 7 in. 168 pp.

139. *Illustrated Pamphlets*. Describes the use and adaptability of Extruded Architectural Shapes, Benedict Nickel, Brass and Copper Pipe in Iron Pipe sizes for plumbing installations. Size, 8½ x 11 in.

16. FIRE RESISTING DOORS, WINDOWS AND TRIM

Art Metal Construction Company, Jamestown, N. Y.

1170. *Hollow Metal Doors and Trim*. Portfolio containing indexed details of metal doors, trim, frames, partitions, elevator enclosures and dumbwaiter enclosures prepared for use in the draughting room, together with general catalog, showing general details, photographs of executed work and descriptive matter. This valuable portfolio is sent to practicing architects having hollow metal projects. 100 detail pp., general catalog, 160 pp. Illustrated. Size, 8½ x 11 in.

1171. *Hollow Metal Doors and Trim*. Catalog for general but limited distribution to practicing architects contains details of doors, trim, mouldings, partitions and enclosures, photographs of executed work, partial list of installations and specification data. 160 pp. Illustrated. Size, 8½ x 11 in.

Crittall Casement Window Co., Detroit, Mich.

672. *Crittall Universal Casement, Catalog No. 22*. Contains complete description, photographs, specifications and details of steel casement windows for banks, schools, residences, churches, hospitals, set directly into masonry and with auxiliary frames. 76 pp. Illustrated. Size, 9 x 12 in.

1169. *Crittall Standardized Casements, Catalog No. 1-26*. For architects, A. I. A. File No. 16e1. An attractively prepared book of details, specifications and descriptive data on standard size and section steel casements. 32 pp. Illustrated. Size, 8½ x 11 in.

Dahlstrom Metallic Door Co., Jamestown, N. Y.

674. *Architectural Catalog*. Illustrated catalog showing styles and types of Dahlstrom Standard Construction Hollow Metal Doors and Trim. Conduo-Base, etc. Also various types of frames, jamb construction and architectural shapes. 178 pp. Illustrated. Size, 8½ x 11 in. in looseleaf.

The General Fireproofing Building Products, Youngstown, Ohio.

1266. *Architectural Details of GF Steel Windows*, steel lintels, steel doors and mechanical operators. Book of working details, notes, sizes and specifications. 62 pp. Illustrated. Size, 8½ x 11 in.

1267. *GF Steel Standard Casement Windows*. 1926 edition, architectural details, sizes and specifications for standard steel casement windows that can be combined to fill any size opening. Valuable information for the drafting room. A. I. A. File No. 16e. 16 pp. Illustrated. Size, 8½ x 11 in.

1268. *GF Standard Industrial Doors and Frames*. Catalog of standard stock size doors and frames for industrial and commercial buildings. 6 pp. Illustrated. Size, 8½ x 11 in.

International Casement Co., Jamestown, N. Y.

834. *International Casements, Catalog No. 7*. A complete catalog, including working details, hardware, screen, specifications and fine illustrations of modern American installations as well as 16th Century Tudor and Jacobean residences in England. 224 pp. Illustrated. Size, 8½ x 11 in. Sent to practising architects on receipt of request on business letter-head.

1099. *Cotswold Casements, Catalog No. 10*. Steel casements with steel muntins or leaded lights in standard sizes and designs. Details of hardware, sash and suggested frame details. Schedule of standard sizes. Suggested specifications for the use of architects. 18 pp. Illustrated. Size, 8½ x 11 in.

Wm. H. Jackson Co., 335 Carroll St., Brooklyn, N. Y.

1018. *Jackson Windows of Bronze, Catalog No. 21*. Standard bronze solid section double-hung, casement and special windows, details of types, illustrations of installations. 16 pp. Illustrated. Size, 8½ x 11 in.

Jamestown Metal Desk Co., Inc., Jamestown, N. Y.

1077. *"Medesco" Hollow Metal Doors and Elevator Enclosures*. Catalog B. Metal door designs, combination buck and jambs, finished steel jambs and mouldings. Detail drawings and sections. A catalog for filing. 32 pp. Ill. Size 8½ x 11 inches.

The Kawneer Company, Niles, Mich.

1334. *Kawneer Solid Nickel Silver Windows*. Portfolio shows casement, weight hung types and special drop down transom type. Demonstrator included. 12 pp. Illustrated. Size 9 x 11½ in.

David Lupton's Sons Co., Philadelphia, Pa.

1131. *Lupton Projected Sash*. A. I. A. File No. 16e1. Details and descriptions of standard steel sash units, projected type for offices, schools and commercial buildings. 24 pp. Illustrated. Size, 8½ x 11 in.

Richards-Wilcox Mfg. Co., Aurora, Ill.

796. *Fire Doors and Hardware, Catalog No. A-25*. A catalog of standard, approved tin-clad fire doors, steel frames, automatic door hangers, tracks and fixtures; also hinges, locks and accessories. Details, dimensions and installation diagrams. 96 pp. Illustrated. Size, 8½ x 11 in.

Truscon Steel Co., Youngstown, Ohio.

898. *The Donovan Awning Type Steel Window*. A catalog containing details, specifications and complete description of the working and advantages of the Truscon-built Donovan Awning Type Window especially adapted for schools, hospitals and other buildings. 12 pp. Illustrated. Size, 8½ x 11 in.

The United Metal Products Co., Canton, Ohio.

968. *Architects' Handbook*. A very fine catalog of hollow metal doors, metal partitions, metal bucks and jambs, metal conduo-base, and metal mouldings. 108 pp. Illustrated. Size, 8½ x 11 in.

17. SPECIAL DOORS AND WINDOWS

Irving Hamlin, 1500 Lincoln St., Evanston, Ill.

735. *The Evanston Sound-Proof Door: also The Hamlinized Folding partitions*. A circular explaining the construction of a sound-proof door and folding partitions hermetically sealed against odors, dust, light, weather and air, especially adapted to music schools, hospitals, etc. 8 pp. Size, 8½ x 11 in.

907. *The Evanston Sound-Proof Door*. A catalog giving details and hardware equipment of sound, odor, dust and air proof doors for hospitals and music schools. Also Hamlinized folding partitions for churches, Sunday Schools and Public Schools. 10 pp. Illustrated. Size, 8½ x 11 in.

The Kinnear Manufacturing Company, Columbus, Ohio.

455. *Steel Rolling and Folding Doors and Shutters, Catalog No. 52*. This catalog is devoted to service doors adaptable to building of all classes, piers, factories, warehouses, etc. Illustrates their uses and contains tables for designers and detailers. 96 pp. Illustrated. Size, 8 x 11 in.

18. VAULTS AND SAFES

The Consolidated Expanded Metal Companies, Steelcrete Bldg. Wheeling, W. Va.

1187. *Steelcrete—Timetested Products*. A condensed catalog of steelcrete products—metal lath, corner beads, channels, wall ties, reinforcing mesh, industrial mesh and steelcrete armor mat vaults. Illustrations, description and specifications for use of products. Bound in cover with index tab for filing. 16 pp. Illustrated. Size, 8½ x 11 in.

The Rivet-Grip Steel Co., 2735 Prospect Ave., Cleveland, Ohio.

768. *The Rivet-Grip System of Bank Vault Reinforcement*. This handbook explains the fundamentals of bank vault design and the advantages of the Rivet-Grip System of Reinforcement. Details of vertical and horizontal types, specifications and installations. 34 pp. Illustrated. Size, 8½ x 11 in.

19. CARPENTRY

Andersen Lumber Co., Bayport, Minn.

1109. *Andersen Frames, Catalog No. 300*. A. I. A. File No. 19 e 13. A valuable book for architects' files. Complete description of Andersen standard door and window frames. Dimensions, details, installation details for different types of frames, special conversion details and working specifications. 48 pp. Illustrated. Size, 9½ x 11½ in.

The Bessler Disappearing Stairway Co., Akron, Ohio.

1134. *The Bessler Disappearing Stairway*. Series of eight photographs of wood and steel disappearing stairways with data sheet containing dimensions and price list. 9 pp. Illustrated. Size, 8½ x 11 in.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

19. CARPENTRY—Continued

E. L. Bruce Co., Memphis, Tenn.

1983. *Oak Flooring Specification Manual*. A filing folder, A. I. A. File No. 19e9, containing grading rules; uses of different grades; Standard sizes; laying instructions; methods of scraping and suggested specification form. 16 pp. Size, 8½ x 11 in.

Samuel Cabot, Inc., 141 Milk St., Boston, Mass.

1330. *Cabot's Creosote Stained Shingles*. Booklet contains description, approximate and comparative costs, data on covering fastening, suggested specifications and details for the use of Cabot's Stained Shingles. A. I. A. File No. 19d1. 16 pp. Illustrated. Size 8½ x 11 in.

Chamberlin Metal Weather Strip Co., 1644 Lafayette Boulevard, Detroit, Mich.

1300. *Chamberlin Weather Strip Details for Wood Sash and Doors*. Booklet contains comprehensive details of Chamberlin weatherstrips made to meet various conditions. Specifications are included. A valuable reference book on the subject for draughting room and specification writer. A. I. A. File No. 19e14. 50 pp. Illustrated. Size, 8½ x 11 in.

1301. *Chamberlin Plasti-Calk Specifications*. Folder contains specifications for use of Plasti-Calk, detail drawings showing application and charts giving results of tests of leakage through various parts of window frame and wall. A. I. A. File No. 19e16. 4 pp. Illustrated. Size, 8½ x 11 in.

Curtis Companies Service Bureau, Clinton, Iowa.

663. *Keeping Down the Cost of Your Woodwork*. A book illustrating Curtis interior woodwork and built-in cabinets and fixtures designed by Trowbridge and Ackerman, Architects, New York. Colored illustrations and details. 16 pp. Illustrated. Size, 7 x 9¼ in.

926. *Curtis Woodwork*. A valuable booklet presenting the entire line of woodwork such as entrances, doors, windows, exterior mouldings, stairs and permanent furniture. Sent on request. 40 pp. Illustrated. Size, 9 x 12 in.

Hartmann-Sanders Company, 6 East 39th St., New York City.

334. *Catalog No. 47*. Illustrating Kell's Patent Lock Joint wood stave columns for exterior and interior use. 48 pp. Illustrated. Size, 7½ x 10 in.

The Higgin Manufacturing Co., 5th and Washington Ave., Newport, Ky.

353. *Screen Your Home in the Higgin Way*. A description of Higgin door and window screens with practical data. 16 pp. Illustrated. Size, 8½ x 11½ in.

The Long-Bell Lumber Co., R. A. Long Building, Kansas City, Mo.

204. *The Perfect Floor*. Tells how to lay finish and care for Oak Flooring. 16 pp. 14 illustrations. Size, 5½ x 7½ in.

McKeown Bros. Co., 21 East 40th St., New York City.

434. *Clear Floor Space*. A folder showing uses and advantages of McKeown "Lattis" and "Bowstring" long span wood roof trusses. 4 pp. Illustrated. Size, 8½ x 11 in.

G. E. Walter, 157 East 44th Street, New York City.

1167. *Duretta*. Booklet describing Duretta, a fireproof composition with which carved woodwork and metal can be faithfully imitated. Illustrated with examples of executed doors, panelling, mantels and grilles. 16 pp. Illustrated. Size, 5¼ x 8¼ in.

Watson Manufacturing Co., Jamestown, N. Y.

737. *Watson Insect Screens*. Reprint of space in Sweet's Catalog giving illustrations and detailed data for the use of architects. 21 pp. Illustrated. Size, 8½ x 11 in.

West Coast Lumber Trade Extension Bureau, 5562 F. Stuart Bldg., Seattle, Washington.

1168. *Durable Douglas Fir*. America's Permanent Lumber Supply. A treatise on the growth, marketing and use of Douglas fir lumber by Prof. B. L. Grondal, M. Sc. F., College of Forestry, University of Washington. This treatise is interesting, instructive and contains much data of value to the architectural profession. 32 pp. Illustrated. Size 7 x 11 in.

Western Pine Manufacturers Association, Portland, Ore.

1296. *Bingo of Flathead*—A dog's story of Pondosa, the Pick o' the Pines, a narrative that gives the reader a comprehensive idea of Pondosa Pine from forest to finished lumber. The intermediate steps in the production of lumber are briefly told in an interesting manner. 16 pp. Illustrated. Size, 6 x 9 in.

J. G. Wilson Corp., 11 East 38th St., New York City

760. *Sectionfold and Rolling Partitions*. *Hygienic School Wardrobes Catalog 37*. This catalog illustrates the construction and details of the partitions and wardrobes with plans for and photographs of installations. 40 pp. Illustrated. Size, 8½ x 11 in.

20. FURRING AND LATHING

American Steel & Wire Company, Continental & Commercial National Bank Bldg., Chicago, Ill.

1148. *Stucco Houses Reinforced with Triangle Mesh Fabric*. Booklet contains information on triangle mesh fabric, hints on stucco construction, stucco quantities, plans and perspectives of stucco houses, etc. 20 pp. Illustrated. Size, 6 x 9 in.

The Bostwick Steel Lath Company, Niles, Ohio.

1278. *Bostwick Economy*. Booklet describes the advantages of metal lath, its application and uses for exteriors and interiors. Tables of standard sizes and weights of various types of lath and specifications are included. Accessories such as corner beads, base beads, "Invisible" picture moulding and wall ties are also shown. 30 pp. Illustrated. Size, 7½ x 9¼ in.

Concrete Engineering Co., Omaha, Neb.

346. *How to Use Ceco Lathing Materials*. An illustrated treatise on the use of expanded metal lath. Contains construction details and complete specifications, with sample piece of lath in pocket on cover of book. 16 pp. Illustrated. Size, 8½ x 11 in.

Concrete Steel Co., 42 Broadway, New York.

1207. *Havemeyer Fireproofing Products*. Booklets descriptive of materials and uses. Includes metal lath; furring channels, flats and angles; welded fabric; copper steel basement windows; curb bars; inserts; steel tiles and metal lumber. Architects' specifications for application of all types of metal lath are given. 40 pp. Illustrated. Sizes, 8½ x 11 in.

Milwaukee Corrugating Co., Milwaukee, Wis.

838. *The Milcor Manual*. Catalog No. 20. A data book for designing the use of expanded metal lath, expansion cornerheads and casings, steel floor domes and other fireproof building products. Specifications and details. 64 pp. Illustrated. Size, 8½ x 11 in.

Truscon Steel Company, Youngstown, Ohio.

316. *Hy-Rib and Metal Lath*. Tables, general data and illustrations of Hy-Rib and metal lath constructions. 6 pp. Illustrated. Size, 8½ x 11 in.

21. PLASTERING

The Best Bros. Keene's Cement Co., Medicine Lodge, Kansas.

1329. *Best Bros. Keene's Cement*. Booklet contains statement as to the advantages, grades and uses of Best Bros. Keene's Cement, specifications, data on quantities and the painting or enameling of Keene's cement. A booklet of practical value. 24 pp. Illustrated. Size 5 x 9 in.

Portland Cement Association, 33 West Grand Ave., Chicago, Ill.

1110. *Portland Cement Stucco*. Book for architects' files, illustrating in color various stucco finishes with description; steps required to obtain these finishes are illustrated. Specifications for Portland cement stucco, recommendations on design and construction. Notes on prepared stucco, color materials, overcoating old houses and construction details. 64 pp. Illustrated. Size, 8½ x 11 in.

22. MARBLE, SLATE AND STRUCTURAL GLASS

The Georgia Marble Co., Tate, Pickens Co., Ga., New York Office, 1328 Broadway.

634. *Why Georgia Marble Is Better*. Booklet, 3½ x 6 in. Gives analysis, physical qualities, comparison of absorption with granites, opinions of authorities, etc.

23. FLOOR AND WALL TILE, LINOLEUM AND ACCESSORIES

Armstrong Cork Company, Linoleum Division, Lancaster, Pa.

1194. *Enduring Floors of Good Taste*. Armstrong's linoleum for all types of buildings, description and illustrations in both black and white and in color. Information on how to choose linoleum, how to lay linoleum and proper care after laying. Typical patterns reproduced in color. 48 pp. Illustrated. Size, 6 x 9½ in.

1314. *Armstrong's Linoleum Floors*. Fifth Edition, March, 1927, completely revised. Linoleum gauges and weights, tests for judging the quality of linoleum, complete specifications, color plates of typical designs and list of representative installations are given. Booklet is contained in a filing folder indexed A. I. A. File No. 23j. 40 pp. Illustrated. Size, 8½ x 11 in.

Bonded Floors Company, Inc., 1421 Chestnut St., Philadelphia, Pa.

A series of booklets, with full color inserts showing standard colors and designs. Each booklet describes a resilient floor material, as follows:

1159. *Battleship Linoleum*. Explains the advantages and uses of this durable, economical material.

1160. *Marble-ized Cork Composition Tile*. Complete information on cork-composition marbleized tile and the many artistic effects obtainable with it.

1161. *Treadlite Tile*. Shows a variety of colors and patterns of this adaptable cork composition flooring.

1162. *Natural Cork Tile*. Description and color plates of this super-quiet, resilient floor.

1163. *Practical Working Specifications for installing battleship linoleum, cork composition tile and cork tile*.

Stedman Products Co., South Braintree, Mass.

1272. *Stedman Reinforced Rubber Flooring*. Loose leaf catalog bound in folder for filing, indexed A. I. A. File No. 23C. Description of Stedman service and product for floors in many types of buildings. Specifications, technical data, cleaning instructions and list of typical installations are included. 68 pp. Illustrated. Size, 8½ x 10½ in.

United States Rubber Co., 1790 Broadway, New York City.

959. *Period Adaptations for Modern Floors*. This book illustrates the adaptability of "U. S." Tile floors to the different periods of architectural styles and also its use in a wide range of modern buildings. Price, \$1.00. 60 pp. Illustrated. Size, 8½ x 11 in.

Zenitherm Company, Inc., Newark, N. J.

1302. *Zenitherm Floors*. Booklet describes and illustrates the use of Zenitherm as a flooring material for use in various types of buildings. The qualities and properties of Zenitherm are set forth in the text. Zenitherm is a material suitable for interior or exterior use. Data on colors and standard sizes, and a partial list of architects who have specified Zenitherm are included. A. I. A. File No. 23g2. 14 pp. Illustrated. Size, 8½ x 11 in.

1303. *Zenitherm Walls*. A booklet giving a comprehensive idea of the outstanding qualities of Zenitherm as a building material, particularly for walls. Direction for erecting, and other data are included. Partial list of installations are included. A. I. A. File No. 23g2. 22 pp. Illustrated. Size, 8½ x 11 in.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

24. PLASTIC FLOORS

Franklyn R. Muller, Inc., Waukegan, Ill.

242. Asbestos Flooring Composition. A book describing uses of and giving specifications and directions for Composition Flooring, Base, Wainscoting, etc. Size, $8\frac{1}{2} \times 11$ in. Illustrated.

Thomas Moulding Brick Co., 133 West Washington St., Chicago, Ill.

1227. Floors of Permanence and Beauty at Low Cost. Folder descriptive of Mouldings "Moulstone" Flooring for residence, office buildings, stores, schools, hospitals and buildings for other purposes. 4 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

25. PAINT, PAINTING AND FINISHING

Aluminum Company of America, New Kensington, Pa.

1308. Aluminum Paint—The "Coat of Metal" Protection. A handbook on the physical properties of aluminum paint and its uses in modern industry. This handbook, written by J. D. Edwards and R. I. Wray, is a comprehensive treatise on Aluminum paint. Specifications are included. 36 pp. Illustrated. Size, $5\frac{1}{4} \times 8\frac{1}{4}$ in.

Samuel Cabot, Inc., 141 Milk St., Boston, Mass.

341. Cabot's Old Virginia White and Tints. Describes a specially prepared "flat" white which architects say gives "the whitewash white effect." Also describes tints perfectly flat in tone, giving the "pastel effect." Used on wood, brick, stone, and stucco. 16 pp. Illustrated. Size, $4 \times 8\frac{1}{4}$ in.

342. Cabot's Creosote Stains. Description of a standard stain for shingles, siding, boarding and timbers, with covering capacity and specifications. 16 pp. Illustrated. Size, $4 \times 8\frac{1}{4}$ in.

Cook Paint and Varnish Company, Kansas City, Mo.

1337. Hand Book and Specifications of Architectural Finishes. A series of loose leaf specifications attached to a folder for filing. Folder includes general clauses, definition of materials, guide for treatment of ordinary woods used for interior woodwork and specifications for interior and exterior finishes of wood and cement floors. A description of the products made by Cook Paint and Varnish Company are included. This is a valuable hand book for specification writers. A. I. A. File No. 25c. 27 pp. Size $8\frac{1}{2} \times 11$ in.

Craftex Co., 37-39 Antwerp St., Brighton Station, Boston, Mass.

1353. Do You Belong to The Never-Grow-Olds. Booklet illustrated in color with an outline history of wall textures and decoration. The physical make-up of Craftex is stated and a partial list of installations is included. 20 pp. Illustrated. Size $5\frac{3}{4} \times 8\frac{3}{4}$ in.

1357. Craftex Texture Wall and Ceiling Finishes. Folder tells what Craftex is, types of Craftex finishes obtainable, preparation of surfaces with directions on how to use Craftex. Suggested finishes in Craftex are illustrated. 4 pp. Illustrated. Size $8\frac{1}{2} \times 11$ in.

Joseph Dixon Crucible Co., Jersey City, N. J.

324. Dixon's Silica Graphite Paint. A pamphlet describing the physical properties of silica-graphite paint and especially the wide difference between it and other protective paints. Contains also sample color card with specifications. 20 pp. and 6 pp. in color card. Illustrated. Size, $3\frac{3}{4} \times 6\frac{1}{4}$ in.

The General Fireproofing Building Products, Youngstown, Ohio.

1269. (a) GF Floor Enamel. (b) GF Protective Coatings. (c) GF Cement Paint. Folders contain data, specifications and estimating information for GF technical paints. East folder 4 pp. Size, $8\frac{1}{2} \times 11$ in.

The Glidden Company, Cleveland, Ohio.

419. Architectural Specifications Book— $8\frac{1}{4} \times 10\frac{1}{4}$ in. 32 pp. Containing complete architectural specifications and general instruction for the application of Glidden Paints and Varnishes, including Ripolin. Directions for the proper finishing of wood, metal, plaster, concrete, brick, and other surfaces, both interior and exterior, are included in this specification book.

A. C. Horn Co., Long Island City, N. Y.

971. Horn's House Paints. Catalogs and color cards of paints for exterior wood work, porch and deck paints, shingle and stucco paints and china flat oil paints. 18 pp. Illustrated. Size, $3\frac{3}{4} \times 6\frac{1}{4}$ in.

The Muralo Company, Inc., 570 Richmond Terrace, Staten Island, N. Y.

1286. Mural-Text. Folder describing the use of Mural-Text a plastic composition designed to produce textured wall surfaces in color and high and low relief. Mural-Text is a dry powder, mixed with cold water on the job. 8 pp. Illustrated. Size, $3\frac{1}{2} \times 6\frac{1}{4}$ in.

1287. Muralo. Series of folders describing Muralo Wall Coating, Muralo Wall Size, Muralo Patching Plaster, Muralo Relief Compound, Muralo Relief Bulb, Indelible Weather-resisting Cold Water Paint, King's Perfected Cold Water Paint, Salamander Fireproof Cold Water Paint, Cyclo Painting Machines. Color samples where applicable are included. Each folder $3\frac{1}{2} \times 6$ in.

1352. Mural-Text for the Rich Mellow Beauty of Plastic Textured walls. Attractively prepared booklet on the subject of wall textures and the use of Mural-Text for wall decoration and surface texture. 16 pp. Illustrated. Size $8\frac{1}{2} \times 11$ in.

1364. Mural-Text for Textured and Relief Decoration. Direction folder and architects' short form specifications. Complete directions for preparation of various backing surfaces and application of Mural-Text. A. I. A. File No. 25b29. 6 pp. Size $8\frac{1}{2} \times 11$ ins.

National Lead Company, 111 Broadway, New York City.

1342. Cyclopedia of Paint Information. A valuable booklet on paint and painting containing estimating data, formulae for exterior roof painting, interior wall painting, interior wood finishing, brick, stone, concrete and stucco painting, metal painting, miscellaneous painting and chapters on general painting and facts and useful information. A. I. A. File No. 25. 40 pp. Size, $7\frac{1}{2} \times 10\frac{1}{2}$ in.

1344. Standard Specification for the use of Red-Lead Paint. A valuable booklet for the specification writer covering the use of red-lead paint. A. S. T. M. and government specifications for linseed oil, drier, turpentine and red-lead are included. A. I. A. File No. 25a23 or 25c3. 22 pp. Size $7\frac{1}{2} \times 10\frac{1}{2}$ in.

Peaslee-Gaulbert Company, Louisville, Ky.

909. Architects' Specification Chart. A series of 100 specifications for exterior and interior painting and finishing on all kinds of materials. 87 pp. Size, $8\frac{1}{2} \times 11\frac{1}{2}$ in.

910. Interior Decoration. Wood Finishing. House Painting. Three catalogs containing colored combination charts for paints, stains and wall finishes. 20, 20 and 24 pp. Illustrated. Size, 9×12 , $6\frac{1}{2} \times 8\frac{1}{2}$, and 7×9 in.

Pratt & Lambert, Inc., Buffalo, N. Y.

759. Specification Manual for Painting, Varnishing and Enameling. Complete specifications for painting, varnishing and enameling interior and exterior wood, plaster and metal work. A helpful reference book for specification writers. 38 pp. Size, $7\frac{1}{2} \times 10\frac{1}{2}$ in.

L. Sonneborn Sons, Inc., 114 Fifth Ave., New York City.

892. Interior and Exterior Painting and Structural Painting. Bulletins of specifications for interior and exterior paints, and paints for structural work, technical paints and roof protection. Sent on request on business stationery. In folders. Size, $8\frac{1}{2} \times 11$ in.

The Truseon Laboratories, Detroit, Mich.

921. Assortment of Color Cards. Information and specifications on the following materials: Bar-Ox Inhibitive Steel Paint— $3\frac{1}{2} \times 6\frac{1}{4}$ in. 4 pp. Asepticote Interior Flat Wall Paint 8 pp. $3\frac{3}{4} \times 8\frac{1}{4}$ in. Stone-Text Exterior Masonry Paint. 8 pp. $3\frac{1}{2} \times 6\frac{1}{4}$ in. Waterproof Enamels, 4 pp., $3\frac{1}{2} \times 6\frac{1}{4}$ in. Waterproof House Paint, 8 pp. $3\frac{3}{4} \times 8\frac{1}{4}$ in. Waterproof Varnish. 8 pp. $3\frac{3}{4} \times 6\frac{1}{4}$ in. Illustrated.

26. GLASS AND GLAZING

American Window Glass Company, Pittsburgh, Pa.

1365. Window Glass in the Making by William L. Monro. The story of glass from its origin and composition to its manufacture and uses. Appendix contains U. S. Government Master Specification No. 123 flat glass for glazing purposes with comment. An informative booklet that invites the reader. 105 pp. Illustrated. Size $5 \times 7\frac{3}{4}$ ins.

Detroit Show Case Co., Detroit, Mich.

78. Details. Sheets of full size details of "Desco" awning transom bar covers, sill covers, side, head and jamb covers, ventilated hollow metal sash and profile of members. Size, $16 \times 21\frac{1}{2}$ in. 3 sheets.

1368. Desco Metal Store Fronts. Catalogue No. 627 contains illustrations, detail drawings of metal sections, installation details and suggested designs for show window layouts to meet different conditions. A. I. A. File No. 26b1. 40 pp. Illustrated. Size $8\frac{1}{2} \times 11$ ins.

The Kawneer Company, Niles, Mich.

1333. Copper Store Front Construction. Catalog K, 1927 edition. Details and photographic views of Kawneer copper store front construction. Full size detail sheets of Kawneer store front construction prepared for tracing. Sheets are 17×22 in. Catalog 32 pp. Illustrated. Size $8\frac{1}{2} \times 11$ in.

Mississippi Wire Glass Co., 220 Fifth Ave., New York City.

1015. Mississippi Service. A complete catalog illustrating the wire glass products and their adaptability for various uses. Technical data and sizes. 32 pp. Illustrated. Size, $4 \times 8\frac{1}{2}$ in.

1016. Factrolite. Circular showing tests of light distribution through "Factrolite" wire glass for industrial plants. Also fire resisting qualities. 4 pp. Illustrated. Size, 6×9 in.

27. HARDWARE

P. & F. Corbin, New Britain, Conn.

1193. Early English and Colonial Hardware. Reproductions of historic originals and design based upon wrought-iron hardware precedent, made in rustless metal reproducing the surface and color of the wrought iron originals. Latches, knobs, handles, knockers, hinges, key plates and other articles for doors, windows, shutters and cupboards are illustrated by dimensioned sketches. A. I. A. File No. 27b. 30 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

1283. General Catalog No. 27. Listing and illustrating builders' hardware, revised to conform with products now being manufactured. Certain articles have been eliminated and others have been added. This is a valuable hardware reference book. 486 pp. Illustrated. Bound in board covers. Size, $8\frac{1}{2} \times 11$ in.

Richards-Wilcox Mfg. Co., Aurora, Ill.

897. Special Purpose Hinges, Catalog No. 42. Devoted exclusively to special purpose hinges for every purpose. Hinge problems solved by Engineering Department, catalog sent on request. 26 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

939. Big Door Hardware Catalog No. 41. This catalog describes a complete line of hardware and hangers for accordion, parallel sliding, vertical bi-folding and other types for large openings in round houses, freight houses, shipping rooms, mills and warehouses. Also overhead trolley equipment. 24 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

940. Sliding and Folding Partitions Door Hardware. Catalog No. 40. A complete line of hardware for partition doors of all kinds and for all places. Description, details and directions for ordering. 32 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

27. **HARDWARE—Continued**

Richards-Wilcox, Mfg. Co., Aurora, Ill.

988. Singleknob Garage Door Controller. Catalog describing garage door operator by which one or both of a pair of doors can be opened and held in that position. 4 pp. Illustrated. Size, 8 x 11 in.

Samson Cordage Works, Boston, Mass.

586. Samso Sash Cord. Specifications and condensed descriptions of Samson spot window sash cords, Samson mahogany wire center sash cord and accessories. 24 pp. Illustrated. Size, 3½ x 6¼ in.

Sargent & Company, New Haven, Conn.

1145. Sargent Locks and Hardware 1926 Catalog. Fully illustrates Sargent finishing and builders' hardware, locks, butts, bolts, trim, etc. Book contains much valuable data and detail drawings for standard hardware. 534 pp. Illustrated. Size, 9 x 12 in.

The Stanley Works, New Britain, Conn.

11. Wrought Hardware. This catalog describes additions to the Stanley line of Wrought Hardware, as well as the older well-known specialties and various styles of butts, hinges, bolts, etc. 376 pp. Illustrated. Size, 6½ x 9½ in.

12. Garage Hardware, Booklet, illustrated. Garages and their equipment, such as hinges, hasps, door holders, latch sets, chain and hand bolts, showing illustrations and text with dimensions of garages, describing the Stanley works product. Size, 6 x 9 in. 24 pp.

495. Stanley Detail Manual. A catalog in looseleaf binder, consisting of five sections on Butts, Bolts, Blinds and Shutter Hardware, Stanley Garage Hardware, Screen and Sash Hardware. Detail drawings are given, showing clearances and other data needed by detailers. 116 pp. Illustrated. Size, 7½ x 10½ in.

Vonegut Hardware Co., Indianapolis, Ind.

747. Von Duprin Self-Releasing Fire Exit Latches, Reference Book—No. 240. A complete catalog with details of the working part of these latches, handle bars, door holders and accessories. Dimensions and installation direction. 96 pp. Illustrated. Size, 8½ x 11 in.

28. **FURNISHINGS**

American Seating Co., 14 East Jackson Blvd., Chicago, Ill.

868. School Furniture. Catalogs 255 and 56. Catalogs illustrating school house seating (No. 255), and a complete line of school-house furniture and supplies (No. 56). 32 and 104 pp. Illustrated. Size, 8½ x 11 and 6 x 9 in.

869. Assembly Chairs. Three catalogs illustrating all types of portable and fixed assembly chairs and seats, including tablet arm chairs, for all kinds of places and uses. 32, 16 and 33 pp. Illustrated. Size, 6 x 9 in.

Hardwick & Magee Company, 650 W. Lehigh Ave., Philadelphia, Pa.

826. Fine Carpets in Famous Places. A beautifully illustrated catalog describing the varieties of the Hardwick and Magee Co.'s Wilton carpets and rugs for hotels, theatres, lodge halls, clubs, churches, hospitals and railroad cars. 24 pp. Illustrated. Size, 8 x 10½ in.

1098. Cameo Wilton Rugs. Color plates of unusual small rugs in round, oval and half-oval shapes. Excellent in design, shape and color. Twenty-four (24) plates in color. Size, 7¼ x 10½ in.

Kent-Costikyan, 585 Fifth Ave., New York City.

954. The House of Kent-Costikyan. A booklet describing the various types and grades of carpets and rugs, including antique rugs of the Isfahan and Kuba types, in the extensive stocks of this company. 16 pp. Illustrated in color. Size, 5½ x 8 in.

The Lincrusta-Walton Company, Hackensack, N. J.

519. Lincrusta-Walton. This book gives directions for buying, caring for and applying Lincrusta-Walton; together with color chart and many pages showing patterns. 67 pp. Size, 8½ x 11 in. Illustrated. Bound in boards.

The B. L. Marble Chair Co., Bedford, Ohio.

973. Office Chairs, Catalog No. 32. Revised and enlarged catalog of chairs for lodges, court rooms, directors' rooms, every kind of office chairs, costumers', waste boxes, settees and accessories. 88 pp. Illustrated. Size, 9¼ x 12 in.

Charles W. Poulson & Sons Carpet Co., 295 Fifth Ave., New York City.

1062. Character in Carpet. A booklet illustrated in color and descriptive of Claridge wide seamless carpet and "Hermitage" high pile Wiltons. 22 pp. Illustrated. Size, 9½ x 12¾ in.

Wallpaper Manufacturers Association of the United States, 461 Eighth Ave., New York City.

913. Wallpaper Magazine. A monthly publication for architects, building contractors and wallpaper dealers to acquaint them with the many interesting and artistic uses for wallpaper. 32 pp. Illustrated. Size, 8 x 11 in.

Watson Manufacturing Co., Jamestown, N. Y.

788. Watson Metal Office Furniture. Catalog describing steel furniture for offices, banks and public buildings. Installations illustrated. 55 pp. Illustrated. Size, 8½ x 11 in.

Henry Wels Manufacturing Co., Inc., Elkhart, Ind.

1338. Goodwill and Income from "Between Type" Patents. Booklet illustrating and describing Weisteel Cubicals and their use in hospitals. This booklet is of particular interest to architects designing hospital buildings. 20 pp. Illustrated. Size, 8½ x 11 in.

1339. Weisteel Compartment Catalog No. 12. 1927 Edition. Complete description of the design, construction and erection of Weisteel compartments for toilets, showers, dressing rooms and hospital cubicals. Details and sizes of stock units, suggested layouts and specifications are included. A. I. A. File No. 28a3. 11 pp. Illustrated. Size, 8½ x 11 in.

29. **PLUMBING**

Alberene Stone Co., 155 West 23d St., New York City.

1237. Catalog H. Alberene stone laundry tubs, kitchen sinks, combination fittings and description, including dimensions of standard sizes.

W. D. Allen Mfg. Co., 566-570 West Lake St., Chicago, Ill.

1130. Allen on Fire Protection. A. I. A. File No. 29e2. Folder containing data, specifications, detail drawings and dimensions of hose cabinets designed for various types of equipment. Catalog includes notes on underwriters' requirements, hose racks, valves, couplings, details of fire pump and single standpipe system, etc. A valuable book of practical information for architects' files. 24 pp. Illustrated. Size, 8½ x 11 in.

American Brass Co., Waterbury, Conn.

862. Brass Pipe for Water Service, Publication B-1. A compilation of data on corrosion of various kinds of pipe and the value of Anaconda Brass Pipe for permanent service, also comparative cost estimates. 31 pp. Illustrated. Size, 8½ x 11 in.

The American Pln Co., Div. Scovill Mfg. Co., Waterbury, Conn.

1150. Ampinco Showers and Bath Fixtures. A. I. A. File No. 29h3. Loose leaf catalog. Secured in cover backs giving dimensions and roughing in measurements of M-VB Temperators, Ampinco showers of various types, valve parts, bath tub supplies and wastes and combination bath fixtures and showers. A booklet for the files. 56 pp. Illustrated. Size, 8½ x 11 in.

J. H. Balmer Co., 259 Plane St., Newark, N. J.

1028. China Necessities. Catalog of bath room accessories consisting of towel racks; shelves; tooth brush, tumbler and soap holders, hand rails, hooks and paper holder. 24 pp. Illustrated. Size, 8½ x 11 in.

The Beaton & Cadwell Mfg. Co., New Britain, Conn.

913. "Genuine" Perfection Line. Catalog No. 7. A catalog describing a complete line of Simplex Flush valves, automatic air valves, floor and ceiling plates, towel bars, pipe hangers and accessories. 90 pp. Illustrated. Size, 4 x 6 in.

A. M. Byers Company, Pittsburgh, Pa.

679. What is Wrought Iron? Bulletin 26-A. Contains the definition of wrought iron, methods of manufacture, chemical and physical characteristics; advantages of wrought iron as a pipe material; service records from old buildings equipped with Byers Genuine Wrought Iron Pipe. How to tell the difference between iron and steel pipe. 40 pp. Illustrated. Size, 8 x 10¼ in.

680. The Installation Cost of Pipe. Bulletin 38. Contains cost analysis of a variety of plumbing, heating, power and industrial systems, with notes on corrosive effects in different kinds of service. 32 pp. Illustrated. Size, 8 x 10¼ in.

Crampton Farley Brass Co., 221 Main St., Kansas City, Mo.

194. Several pamphlets describing various types of floor and area-way drains. Size, 3½ x 6¼ in.

Dahlquist Manufacturing Co., South Boston, Mass.

1229. Dahlquist Data Book. Catalog describing and pricing the Patented Aquatherm, 25-year guaranteed copper range boilers, and complete line of hot water heating combinations for gas, electricity, coal and kerosene. 16 pp. Illustrated. Size, 3½ x 6 in.

The Durlon Co., Dayton, Ohio.

1309. Durlon Drain Pipe and Fittings. Bulletin No. 134-B. Bulletin describing the physical properties, details and specifications for drain pipe and fittings which are non-corrosive to acid, alkali and other chemical wastes of industrial plants, laboratories, hospitals and colleges. 20 pp. Illustrated. Size, 8½ x 11 in.

Economy Pumping Machinery Co., 122 North Curtis St., Chicago, Illinois.

1312. Economy Centrifugal Double Suction Pumps and Economy Horizontal Split Case Multi Stage Centrifugal Pumps. Two booklets giving details of construction, capacities, and other technical data. 12 pp. and 4 pp. Illustrated. Size, 8½ x 11 in.

1313. Economy Centrifugal Sump Pumps for automatic ejection of seepage and sewage. Bulletin No. 407 briefly describes the construction and installation of Economy sump pumps. Suggested specifications and technical data are included. 16 pp. Illustrated. Size, 8½ x 11 in.

Excelso Specialty Works, 119 Clinton St., Buffalo, N. Y.

843. Excelso Quality Water Heaters. Catalog describing a complete line of water heaters to be attached to furnaces, steam and hot water heating boilers. 8 pp. Illustrated. Size, 3¼ x 6¼ in.

Hess Warming & Ventilating Co., 1207 to 1229 South Western Avenue, Chicago, Ill.

860. Hess Snow-White Steel Cabinets and Mirrors. A catalog with details of construction, dimensions, weights and prices of Snow-White steel cabinets of various styles and mirror access doors and frames to pipe shaft. 16 pp. Illustrated. Size, 4 x 6 in.

Jenkins Bros., 80 White Street, New York.

1153. Jenkins Valves for Low Cost Valve Service. An illustrated folder in color, showing various types of valves suitable for every purpose on steam, water, air or gas. Form 100. 16 pp. Size, 3½ x 6¼ inches.

The Kennedy Valve Mfg. Co., Elmira, N. Y.

801. Kennedy Valves. Catalog No. 48. A catalog illustrating a complete line of gate, globe and angle, check, back-water and sewer-gas valves for every purpose. Dimensions, details and specifications. 204 pp. Illustrated. Size, 5 x 8 in.

802. Kennedy Pipe Fittings. Catalog No. 48. A catalog describing a complete line of malleable iron and cast-iron flanged pipe fittings, reducers and cast-iron flanges for every purpose. Details, dimensions and drilling templates. 204 pp. Illustrated. Size, 5 x 8 in.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

29. PLUMBING—Continued

Kennedy Valve Mfg. Co., Elmira, N. Y.

803. *Kennedy Fire Hydrants. Catalog No. 48.* A catalog describing a complete line of fire hydrants and accessories. Details, dimensions and installation directions. 204 pp. Illustrated. Size, 5 x 8 in.

Thomas Maddock's Sons Company, Trenton, N. J.

696. *Vitreous China Plumbing Fixtures.* A valuable and complete catalog of vitreous china lavatories, drinking fountains, bidets, water closets, urinals, slop sinks, bathtubs, kitchen sink accessories. Completely illustrated with roughing-in diagrams. 242 pp. Illustrated. Size, 8 x 11 in.

1354. *Durrock Plumbing Fixtures.* A conveniently indexed booklet illustrating and describing lavatories, closets and other plumbing fixtures made of Durrock. 62 pp. Illustrated. Size 6¼x9¼ in.

National Paper Products Co., Carthage, N. Y.

1360. *Architectural Specifications, Toilet Tissue and Paper Towel Installations.* File Folder containing brief but complete information for specifying and installing Twinpax and No-Waste toilet tissue and Public Service paper towel holders. Price list included in A. I. A. File No. 29i3. 12 pp. Illustrated. Size 8½x11 in.

The Permutt Company, 440 Fourth Ave., New York City.

105. *Permutt (Water Rectification Systems.)* Illustrated booklet. Describes all methods of softening water, including the original Zeolite process. For homes, hotels, apartment houses, swimming-pools, laundries, and industrial plants. Size, 8½ x 11 in. 32 pp.

Reading Iron Co., Reading, Pa.

1112. *Handbook and Price List of Reading Wrought Iron Pipe and Fittings.* Tables of sizes and other data including specifications. 50 pp. Illustrated. Size, 5 x 7 in.

1113. *Reading Wrought Iron Pipe.* In the making and in service. Bulletin No. 1. Booklet covering historical data, manufacture of Reading pipe, advantages of wrought iron pipe, uses of wrought iron pipe, model specifications. Reading Iron Co., guarantee and mill specifications for wrought iron standard pipe. 32 pp. Illustrated. Size, 8½ x 11 in.

Ruud Manufacturing Co., Pittsburgh, Pa.

1254. *Ruud Automatic Gas Water Heaters.* Form No. 860. General catalog illustrating and describing all types of Ruud automatic gas water heaters, including essential dimensions and other data. 40 pp. Illustrated. Size, 8 x 10¼ in.

1255. *Ruud Gas Water Heaters—Architects' Bulletin No. 16.* Data fastened in file folder indexed A. I. A. File No. 29d2. Complete data for selecting, installing and specifying Ruud gas water heaters. Informative literature for filing. 22 pp. Illustrated. Size, 8½ x 11 in.

The Soil Pipe Association, Brown-Marx Bldg., Birmingham, Ala.

1298. *Avoid Hidden Danger.* Booklet describes the advantages of cast iron for soil, waste and vent pipes and sets forth its adaptability for use in all types of buildings. A chapter on the corrosion of metals is included. 16 pp. Illustrated. Size, 8½ x 11 in.

The Whitlock Coil Pipe Co., Hartford, Conn.

1046. A looseleaf folder of water storage heaters, preheaters, water treatment, details and sales manual. 16 pp. Illustrated. Size, 8½ x 11 in. Bulletins, looseleaf, details and data water heaters and fuel oil heaters. 52 pp. Illustrated. Size, 5½ x 8½ in.

Zahner Manufacturing Co., Kansas City, Mo.

1323. *For Better Homes—Metal Sinks—Shower Doors.* Booklet illustrates, describes and gives dimensions of kitchen and pantry sinks of different types, and glass and metal shower bath doors with metal angle buck. Loose sheets containing illustrations, details and specifications, indexed with the A. I. A. File No. 29-h, are included. 16 pp. Illustrated. Size 8½ x 11 in.

30. HEATING AND VENTILATING

American Gas Products Corp., 376 Lafayette St., New York City

1238. *Live in the House that Gas Heats.* Booklet describes Ideal Gas boilers, made in various sizes from 225 sq. ft. to 8,000 sq. ft. steam rating or 375 to 13,000 sq. ft. hot water rating. Ratings, dimensions and assembly drawings are included. 8 pp. Illustrated. Size, 8½ x 11 in.

American Radiator Co., 40 West 40th St., New York City.

427. *Ideal-Arcola Heating Outfit.* A book describing a system of hot water heating for small and medium size houses. The boiler is placed in a room and resembles a stove. No cellar required. The ash carrying reduced to a minimum. 24 pp. Illustrated. Size, 6 x 8½ in.

Buckeye Blower Co., Columbus, Ohio.

960. *Heatvent System. Bulletin No. 123.* Illustrating individual heating and ventilating units for schools and places of public assemblage. Engineering data, details and specifications. 14 pp. Illustrated. Size, 8 x 10¼ in.

Buffalo Forge Company, 490 Broadway, Buffalo, N. Y.

976. *Fan Engineering.* An engineering handbook in three parts: Physical properties of air, heat and humidity; air movement for heating, ventilation, forced draft, etc.; performance tables and general information concerning standard apparatus for fan work; appendix, tables. 610 pp. Illustrated. Size, 4¼ x 7 in. Price, \$4.00.

1189. *Niagara Conoidal Fans, Catalog No. 481.* Describes, illustrates and gives various sizes and types of ventilating fans. A valuable booklet of interest to architects and engineers designing ventilating systems. 52 pp. Illustrated. Size, 8½ x 11 in.

Burnham Boiler Corporation, Irvington, N. Y.

800. *Letters To and Fro.* A booklet which explains the difference between steam, hot water and vapor systems of heating and the relative cost of each. Questions, answers and boiler data. 34 pp. Size, 7 x 10 in.

Dahlquist Manufacturing Co., South Boston, Mass.

1230. *Special Copper Boiler* installations of 2,000 gallons or larger. Pressure tested, heaviest Lake copper. Also expansion joints. 4 pp. Illustrated. Size, 6 x 6½ in.

Dayton-Dowd Company, Quincy, Ill.

1317. *Dayton-Dowd House Service and Tank Filling Pumps.* Bulletin No. 250 briefly describes and gives characteristics and specifications for Dayton-Dowd Type CST Tank filling pumps. 4 pp. Illustrated. Size 7½ x 10¼ in.

1318. *Dayton-Dowd Sump Pumps and Sewage Ejectors.* Single and duplex styles. Bulletin No. 264 contains table of standard sizes, brief description and typical specifications of Dayton-Dowd type SSV sump pumps and sewage ejectors. A. I. A. File No. 29-c-1. 4 pp. Illustrated. Size 7½ x 10¼ in.

The Durlon Company, Dayton, Ohio.

1009. *Durlon Ventilating Fans and Hoods. Bulletin No. 140.* Bulletin describing a line of electrically driven exhaust fans for use with acid and other corrosive fumes in industrial plants and laboratories. Also non-corrosive equipment for laboratory hoods. 20 pp. Illustrated. Size, 8½ x 11 in.

Electrol, Inc., of Missouri, St. Louis, Mo.

1261. *Heat, How and When You Want It.* Oil heating with the Electrol. Booklet illustrating and describing the Electrol all electric oil burner for use in residences, public buildings, commercial and industrial buildings. Partial list of installations of electrol is given. Specifications of the equipment are included. 20 pp. Illustrated. Size, 6 x 9 in.

The Frost Manufacturing Co., Galesburg, Ill.

1143. *Ross Steel Boilers, Catalog 4A.* Describes Ross steel boilers for steam or hot water heating, smokeless for coal or oil burning. Dimensions and data for boilers of steam ratings from 400 to 27,000 sq. ft. or hot water, 640 to 43,200 square feet. 16 pp. Illustrated. Size, 6 x 9 in.

1144. *Ross Boilers, Catalog No. 172.* Illustrates and describes frost horizontal tubular boilers for 100 and 150 pounds working pressure. Details, measurements and tables of brick quantities required for setting. 32 pp. Illustrated. Size, 8½ x 11 in.

General Electric Co., Schenectady, N. Y.

1128. *Visual Supervision for Ventilation Control.* Bulletin GEB-11 on the advantages of remote indicating control to the owner. 4 pp. Illustrated. Size, 5¼ x 7¼ in.

Gillis & Geoghegan, 545 West Broadway, New York City.

969. *The G & G Telescopic Hoist.* A catalog containing specifications in two forms: (1) using manufacturer's name, and (2) without using manufacturer's name. Detail in ¼-inch scale for each telescopic model and special material handling section. Fully illustrated with photographs of actual installations and descriptive matter of same. 24 pp. 2 colors. Illustrated. Size, 8½ x 11 in.

Hardinge Brothers, Inc., 4149 Ravenswood Ave., Chicago, Ill.

1258. *Hardinge Fuel Oil Burner: from Bungalow to Skyscraper.* Booklet illustrating and describing the Hardinge fuel oil burner, including the history of Hardinge and advantages of this burner. For domestic and industrial heating plants. 20 pp. Illustrated. Size, 8½ x 11¼ in.

Hart & Cooley Mfg. Co., New Britain, Conn.

712. *Wrought Steel Registers and Grilles. Catalog No. 24.* A catalog of wrought steel floor, baseboard and wall registers, cold air intakes, lock registers, ventilators, furnace regulators and accessories. Dimensions, details and price lists. 80 pp. Illustrated. Size, 7¼ x 10 in.

1065. *Wrought Grilles. Folder No. 8.* Bulletin containing examples of the best methods of installing grilles under conditions most commonly encountered, details and specifications. 6 pp. Illustrated. Size, 8½ x 11 in.

Heggie Simplex Boiler Co., Joliet, Ill.

1070. *Catalog No. 26.* Heggie-Simplex Electric Welded Steel Heating Boilers. Descriptive illustrations and detailed data on size, ratings, etc. 22 pp. Illustrated. Size, 8½ x 10¼ in.

Hess Warming and Ventilating Co., 1207-1229 South Western Ave., Chicago, Ill.

178. *Modern Furnace Heating.* An illustrated book on the Hess Welded Steel Furnaces. Pipe and Pipeless, notes for installation, sectional views, showing parts and operation, dimensions, register designs, pipes and fittings. Size, 6 x 9¼ in. 48 pp.

Ilg Electric Ventilating Co., 2850 North Crawford Ave., Chicago, Ill.

1072. *Looseleaf Catalog.* Illustrating electrical ventilating equipment complete encyclopedia on modern methods of ventilating and heating stores, offices, theatres, restaurants, garages, houses, public buildings. 400 pp. Illustrated.

1073. *Instructions for Installing Ilg Ventilating Fans.* A book of interest to the architect and engineer. Includes diagrams and instructions for ventilation of various types of buildings.

Illinois Engineering Co., 21st St., Racine Ave., Chicago, Ill.

1280. *Vapor Details Bulletin 22.* A concise and simple explanation of True Vapor Heat, describing Illinois Heating Systems and Vapor Specialties. Contains a great deal of Engineering information with detail sheets relative to the installation of Heating Systems in various types of office and residential buildings. It also gives standards for computing radiation and boiler sizes compiled by the Standardization Committee of the Chicago Master Steamfitters' Association. A. I. A. File No. 30c2. 24 pp. Illustrated. Size, 8½ x 11 in.

1281. *Illinois Engineering Company Bulletins.* Bulletin 14, Steam Heating Specialties; 45, Non Return Valves; 103, Pressure Reducing Valves; 203, Back Pressure and Relief Valves; 33, Eclipse Steam Traps; 53, Separators, Oil and Steam; 703, Eclipse Pump Governors, Balanced Valves. Number of pages varies. Illustrated. Size, 8½ x 11 in.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

30. HEATING AND VENTILATING—Continued

Jenkins Bros., 80 White Street, New York.

1152. *Jenkins Fig. 700 Modulating Valve*. A Bulletin descriptive of a new supply control radiator valve for low pressure steam, vacuum, and vapor heating. A. I. A., file number 30-C-2. 4 pp. Illustrated. Size $8\frac{1}{2} \times 11$ inches.

Johnson Service Company, 149 Michigan St., Milwaukee, Wis.

391. *The Regulation of Temperature and Humidity*. A description of the Johnson System of temperature regulation and humidity control for buildings; showing many kinds of thermostatic appliances for automatically maintaining uniform temperature. 63 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

392. *Johnson Electric Thermostat, Valves and Controllers*. A catalog of devices mentioned in the title. 24 pp. Illustrated. Size, $3\frac{1}{2} \times 6$ in.

Kewanee Boiler Co., Kewanee, Ill.

840. *Kewanee Boilers*. Catalog 78, Firebox Boilers; Catalog 79, Power Boilers; Kewanee Boilers in Omaha Schools. Complete details, dimensions, setting diagrams, designing data, specifications and accessories. 52, 34 and 16 pp. Illustrated. Size, 6×9 in.

841. *Kewanee Radiators and Equipment*. Catalog No. 77, Radiators. Catalog 75, Water Heating Garbage Burners. Tobasco Water Heaters and Tanks of all kinds; Selecting the Heating Boiler. Complete details, dimensions, setting diagrams. Designing data and specifications. 24, 30 and 16 pp. Illustrated. Size, 6×9 in. and 5×8 in.

Modine Manufacturing Co., Racine, Wis.

1348. *Thermodyne Unit Heater*. Catalog No. 127 contains complete information, details of construction, dimensions, piping arrangements, capacities, and architectural and engineering data on the Thermodyne Unit Heater. 24 pp. Illustrated. Size $8\frac{1}{2} \times 11$ in.

National Tube Co., Frick Bldg., Pittsburgh, Pa.

670. *National Bulletin No. 25B. Third Edition*. Devoted to the installation of steel pipe in large buildings, architectural anti-corrosion engineering, gas piping, specifications and tables of strength and properties. 74 pp. Illustrated. Size, $8\frac{1}{2} \times 10\frac{3}{4}$ in.

The Herman Nelson Corporation (formerly Moline Heat), Moline, Ill.

411. *Univent Ventilation. Architects' and Engineers' Edition*. A scientific treatise on ventilation for schools, offices and similar buildings; with 40 pages of engineering data on ventilation for architects and engineers. 72 pp.

1115. *Invisible Radiator, Herman Nelson*. Book descriptive of the Herman Nelson Invisible Radiator which can be installed in any ordinary wall or partition without special construction. Illustrated in color; 16 pp. Size, $8\frac{1}{2} \times 11$ in. Booklet of mechanical data showing method of installation, tables of standard sizes, sq. ft., radiation equivalent, etc., of the Invisible Radiator for steam, vacuum and vapor systems. 24 pp. Illustrated. Size, $6 \times 9\frac{1}{4}$ in.

New York Blower Co., 2258 South Halsted St., Chicago, Ill.

1211. *Type ME fan*. Catalog No. 100 illustrates and describes type ME air moving apparatus. This catalog contains dimensions and capacity of various size fans and includes specifications and other valuable engineering data. 32 pp. Ill., size $8\frac{1}{2} \times 11$ inches.

1212. *Comet Unit-Heaters*. Bulletin No. 85. Folder contains general description, dimensions, general data and capacities of Comet Unit-Heaters. 4 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

Pacific Steel Boiler Corp. of Illinois, Waukegan, Ill.

1071. *Bulletin SC-26*. Descriptive illustrations and specifications. Pacific Direct Draft and Up Draft Smokeless Boilers; Bulletin OF-26 covers Pacific Oil Fired Boilers; Bulletin RT-26 Pacific Steel Residence Boilers; and DD-26 Pacific Down Draft Boilers.

Peerless Unit Ventilation Co., Inc., Skillman Ave., and Hulst St., Long Island City, N. Y.

1048. *PeerVent Heating and Ventilating Units*. Booklet descriptive of Unit heating and ventilating units, mechanical features and advantages. Directions for laying out unit systems, complete engineering data and details of standard units. 62 pp. Illustrated. Size, $8\frac{1}{2} \times 10\frac{3}{4}$ in.

1335. *Peerless Industrial Unit Heaters for factories, mills, garages and other Industrial buildings*. Catalog illustrates and describes Peerless Unit Heaters and their use in industrial buildings. Engineering data and installation dimensions are included. 16 pp. Illustrated. $8\frac{1}{2} \times 11$ in.

Richardson & Boynton Co., New York, N. Y., Chicago, Ill., Philadelphia, Pa., Providence, R. I., Boston, Mass.

290. *The Richardson Vapor Vacuum-Pressure Heating System*. An interesting book which presents in clear non-technical language the principles of Vapor-Vacuum-Pressure heating; the economy over ordinary steam heating, steam and hot-water systems may be altered to use the principle with views of buildings where the V-V-P system is installed. 14 pp. Illustrated. Size, 8×11 in.

291. *Perfect Warm Air Furnaces*. No. 203. Contains a full description of various types of warm air furnaces and parts, with dimensions and necessary data. 24 pp. Illustrated. Size, $8 \times 10\frac{1}{2}$ in.

B. F. Sturtevant Co., Hyde Park, Boston, Mass.

1084. *Multivane Fans. Catalog No. 271*. A-I-A File No. 30-d1. Catalog gives dimensions, capacities, horse-powers, performance tables, specifications and detail description of Multivane fans. Design No. 3. 96 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

1095. *Silentoane Fans. Catalog No. 290*. Illustrates and describes fans as installed in ventilating systems of buildings shown. Catalog includes Designs 1 and 2 with performance tables, dimension sheets and specifications. A-I-A File No. 30-d1. 92 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

The Thatcher Co., Thatcher Bldg., 39 St. Francis St., Newark, J. N.

748. *Thatcher Boilers and Thatcher Furnaces*. Catalog describing a series of cast-iron steam and hot water heating boilers and also one describing a series of cast-iron warm air heaters. Accessories, details and dimensions. 80 pp. and 24 pp. Illustrated. Sizes, $4\frac{1}{2} \times 7\frac{1}{2}$ and $8\frac{1}{2} \times 11$ in.

1255. *Helpful Hints on Choosing your Heater and Economical Warmth*. Booklets on the subject of house heating of interest to architects and their clients. 20 pp. and 8 pp. Illustrated. Size, $3\frac{1}{2} \times 6\frac{1}{4}$ in.

Williams Oil-O-Matic Heating Corp., Bloomington, Ill.

1236. *Oil Heating*—What it means to the architect. A booklet of facts and information on the subject of oil burning equipment for heating and data pertaining to the Williams Oil-O-Matic Oil Burner with suggested specifications. Indexed for filing. A. I. A. File No. 30g1. 24 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

Young Pump Co., 450 East Ohio St., Chicago, Ill.

1232. *Young Centrifugal Vacuum and Boiler Feed Pump*. Bulletin No. 6. Electrically driven centrifugal vacuum and boiler feed pumps described and illustrated. Capacities, dimensions and specifications are included. 16 pp. Illustrated. Size, 8×11 in.

31. ELECTRICAL WORK

Frank Adam Electric Co., St. Louis, Mo.

629. *The Control of Lighting in Theatres*. A book describing means for complete control of lighting the stage, auditorium and other parts of the theatres with distribution schedules and specifications. Also specifications of control to Masonic buildings, schools and colleges. 32 pp. Illustrated. Size, 8×11 in.

741. *Panel Board Catalog No. 32*. A complete catalog of standard panel boards, steel cabinets, switches and accessories. 48 pp. Illustrated. Size, $7\frac{3}{4} \times 10\frac{1}{4}$ in.

Enameled Metals Co., Pittsburgh, Pa.

584. *Pittsburgh Standard Rigid Conduit*. A catalog describing patented thread protected enameled conduit and galvanized conduit with specifications and useful wiring data. 31 pp. Illustrated. Size, $6\frac{1}{4} \times 9\frac{1}{4}$ in.

The Frink Co., Inc., 24th St. and 10th Ave., New York City.

150. *Light Service for Hospitals. Catalog No. 426*. A booklet illustrated with photographs and drawings, showing the types of light for use in hospitals, as operating table reflectors, linolite and multi-lite concentrators, ward reflectors, bed lights and microscopic reflectors, giving sizes and dimensions, explaining their particular fitness for special uses. Size, 7×10 in. 12 pp.

218. *Picture Lighting. Booklet No. 422*. A pamphlet describing Frink Reflectors for lighting pictures, art galleries, decorated ceilings, cove lighting, the lighting of stained glass, etc., and containing a list of private and public galleries using Frink Reflectors. 24 pp. Illustrated. Size, $5\frac{1}{4} \times 7$ in.

219. *Frink Reflectors and Lighting Specialties for Stores. Catalog No. 424*. A catalog containing a description of the Frink Lighting System for Stores; the Synthetic System of Window Illumination; and a number of appliances to produce the most effective lighting of displayed objects. 20 pp. Illustrated. Size, 8×11 in.

220. *Frink Lighting Service for Banks and Insurance Companies' Reflectors. Catalog No. 425*. A very interesting treatise on the lighting of offices; with details of illustrations and description of lamps and reflectors. Contains a list covering several pages of banks using Frink Desk and Screen Fixtures. 36 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

General Electric Co., Schenectady, N. Y.

1129. *General Electric Catalog 6001B*. A complete catalog of electrical material, equipment and appliances made by G. E. catalog is conveniently thumb-indexed and bound in boards. A valuable volume for all who specify, buy or install electrical equipment. 1104 pp. Illustrated. Size, $8 \times 10\frac{1}{2}$ in.

Gleason-Tiebout Glass Co., Fifth Ave. Bldg., New York City.

1256. *Enclosing Globes*. Lighting glassware. Booklet illustrates and gives sizes of plain and decorated enclosing glass globes of various shapes and designs. 24 pp. Illustrated. Size, 9×12 in.

1257. *Gletian—Lighting Glassware*. Booklet illustrates various shapes and designs of lighting glassware made in Gletian or Celestite glass with brown, blue, green, coral or gray decorations in glass or mat finishes. 16 pp. Illustrated. Size, 9×12 in.

Graybar Electric Co., 100 E. 42d St., New York.

1052. A complete catalog of electrical supplies distributed by the Graybar Electric Company. The 1925 edition of the "National Electric Code" of the National Board of Fire Underwriters is included as well as valuable electrical data. 1012 pp. Illustrated. Size, 8×11 in.

1108. *Fan Catalog, 1927*, for A. C. and D. C. circuits, non-oscillating, oscillating, ceiling and ventilating (exhaust) fans. Descriptive specifications and details. 32 pp. Illustrated. Size, $5\frac{1}{2} \times 8\frac{1}{2}$ in.

The Edwin F. Guth Co., St. Louis, Mo.

1185. *Guth Lighting Equipment*. Catalog No. 15, in either bound or loose leaf form, illustrating lighting fixtures suitable for public buildings, hotels, banks, hospitals, schools, residences, etc. A. I. A. File No. 31f23. 96 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

1186. *Aglite and Guthlite*. Folders describing and illustrating the Guthlite Super-Illuminator and Aglite Porcelain Enameled Illuminators. Each folder A. I. A. File No. 31f23. 4 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

The Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn.

1209. *Electric wiring devices, Catalogue S* contains complete information on "H & H" switches, sockets, receptacles and wiring devices. A valuable reference book for the architects' building materials library. 123 pp. Ill. Size $8\frac{1}{2} \times 10$ inches.

1355. *A Winning Hand in Plates*. One sheet illustrating and describing the new H. & H. art plates hand etched on heavy brass for switch and convenience outlet cover plates. A. I. A. File No. 31c7. 2 pp. Illustrated. Size $8\frac{1}{2} \times 11$ in.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

31. ELECTRICAL WORK—Continued

Harvey Hubbell, Inc., Bridgeport, Conn.

297. *Electrical Specialties. Catalog No. 17, 1921.* This catalog contains descriptions with prices of the thousand and one items connected with electric light, electric alarm and small electric appliance installations in modern buildings. 104 pp. Illustrated. Size, 8 x 10½ in.

401. *Hubbell Flush Door Receptacles.* Description of a safe, convenient and practical wall outlet de luxe for fine residences, clubs, hotels, public buildings and offices. 4 pp. Illustrated. Size, 8 x 10 in.

Kanne & Bessant, 211 East 45th St., New York City.

1294. *Lamps and Shades, Catalog No. 10.* Illustrates reproductions of early American pewter lamps adapted to modern use. Catalog also includes other early American types for both table and floor. In brass, iron and glass. Supplement to Catalog No. 10 includes other lamps and shades, sconces, fire screens and andirons. Over all dimensions of fixtures and lamps are given. Catalog 8 pp.; supplement 20 pp. Illustrated. Size, 6 x 9 in.

The Lincoln Electric Co., Dept. 11-11, Cleveland, Ohio.

1216. *Lincoln Motors.* Two booklets: (a) motors for electric elevators; (b) "Line-Weld" motors. Both booklets completely describe the construction of motors made of welded steel and contain valuable data on motors and their construction—(a) 2 pp., (b) 26 pp. Illustrated. Size, 7½ x 11 in.

Pittsburgh Reflector Co., Pittsburgh, Pa.

1101. *Show Window Lighting.* A. I. A. File No. 31 f 14. Booklet illustrating and describing various types of reflectors, conduit, spot lights, flood lights, and color lights used for show windows. Book contains valuable technical data and details of space required for reflectors, etc. 28 pp. Illustrated. Size, 8½ x 11 in.

1102. *Cove Lighting.* A. I. A. File No. 31 f 17. Descriptive and apparent candle power distribution diagrams of various types of reflectors used for indirect or cove lighting. Book includes "easy-to-install" conduit, and details of typical cove lighting installations. 24 pp. Illustrated. Size, 8½ x 11 in.

Stromberg-Carlson Telephone Mfg. Co., Rochester, New York, N. Y.

304. *Inter-Communicating Telephone Systems. Bulletin No. 1017.* A pamphlet giving just the information required for the installation of intercommunicating systems from 2 to 32 stations capacity. 15 pp. Illustrated. Size, 7½ x 10 in.

Youngstown Sheet and Tube Co., Youngstown, Ohio.

1017. *Electrical Conduit.* Circular giving complete data about Buckeye Rigid Conduit and Realflex Flexible Steel Armored Cable with specifications. 6 pp. Illustrated. Size, 8½ x 11 in.

32. REFRIGERATION

Armstrong Cork & Insulation Company, Pittsburgh, Pa.

1307. *Refrigerated Drinking Water for Mills, Public Buildings, Hotels, Office Buildings, Etc.* An informative booklet that adequately covers the subject of refrigerated Drinking Water. Valuable tables to assist in laying out drinking water systems are included as well as a partial list of installations. A. I. A. File No. 32d. 52 pp. Illustrated. Size, 7½ x 10½ in.

Baker Ice Machine Co., Inc., Omaha, Neb.

661. *Baker System Refrigeration.* A catalog explaining the application of refrigeration for hotels, hospitals, institutions and restaurants requiring up to 50 tons daily capacity including mechanical details and specifications. 20 pp. Illustrated. Size, 9 x 12 in.

Frick Co., Waynesboro, Pa.

1290. *Ice and Frost. Series I, No. 4.* Enclosed type Compressors and Refrigerating Equipment. A brief outline of the advantages and uses of modern mechanical refrigeration. A few installations of Frick equipment are illustrated. 48 pp. Illustrated. Size, 6 x 9 in.

Frigidaire, Dayton, Ohio.

962. *Frigidaire.* Booklet describing installations and details of automatic refrigerating equipment for residential hotels and apartment buildings. 50 pp. Illustrated. Size, 8½ x 11 in.

General Refrigeration Company, Beloit, Wis.

1349. *The ABC of Electrical Refrigeration.* A booklet outlining the history of refrigeration both natural and mechanical. An interesting and simple explanation of the operation of Lipman refrigeration machines is given. This booklet is valuable as an aid toward securing an understanding of modern mechanical refrigeration. 24 pp. Ill. Size 8½ x 11 in.

1350. *Lipman Automatic Refrigeration.* A series of folders setting forth the advantages of the use of Lipman machines for automatic refrigeration as applied to various uses, such as restaurants, hotels, commercial, florists shops, dairies, etc. Each folder 4 pp. Ill. Size 8½ x 11.

Jamison Cold Storage Door Co., Hagerstown, Md.

1271. *Cooler and Freezer Doors, Refrigerator Fronts and Automatic Ice Chutes.* Catalog No. 13. Complete description and information on cold room products, such as standard cooler and sharp freezer doors, fireproof cooler and freezer doors, vestibule doors, vertical sliding cold storage doors, cold storage windows, refrigerator fronts, can passing vestibules, and automatic ice chutes. 70 pp. Illustrated. Size, 8½ x 11 in.

The Jewett Refrigerator Company, 27 Chandler Street, Buffalo, N. Y.

655. *Manual of Refrigerators.* This manual completely describes the construction of refrigerators for use in hotels, clubs, hospitals, institutions and residences, with specifications. Numerous plans showing size and arrangement of refrigerators in kitchens, service and lunch rooms are included. 30 pp. Illustrated. Size, 8½ x 11 in.

L. Mundet & Son, Inc., 461 Eighth Ave., New York City.

1104. *Insulation for Refrigerating Systems.* Folder describing jointile pure baked cork board and its application to general cold storage construction. 12 pp. Illustrated. Size, 3½ x 8 in.

The Servel Corporation, 51 East 42d St., New York City.

1295. *Filtrine Water Cooling Equipped with Servel Electric Refrigeration.* Folder illustrates and describes self-contained cabinet type Filtrine Water Coolers and the remote type Filtrine Water Cooler. Filtrine Water Coolers are particularly adaptable for use in theatres, public buildings, industrial plants, banks, offices, hospitals, clubs and restaurants. 6 pp. Illustrated. Size, 8½ x 11 in.

1326. *Servel Electric Refrigeration for Household Use.* Architect's Data. Booklet bound in index tab filing folder. Complete information on all models of Servel electric refrigerators including dimensions and suggested specification. A. I. A. File No. 32-c-3. 24 pp. Illustrated. Size 8½ x 11 in.

33. ELEVATORS AND ACCESSORIES

General Electric Co., Schenectady, N. Y.

1127. *Elevator Equipment Bulletins.* GEA-184. Electric Elevator Equipment in the Equitable Life Assurance Society Building, New York City. No. 61311 multi-speed induction motors for elevator service. No. 61308 varying speed induction motors for elevator service. GEA-63 Type GTE Gearless Traction Motors for elevator service. No. 61310 Double Motor Type, multi-speed induction motors for elevator service. Bulletins illustrate and describe motors and give all over dimensions. Each Bulletin, 4 pp. Illustrated. Size, 8 x 10½ in.

Kimball Bros. Co., Council Bluffs, Iowa.

742. *Kimball Straight Line Drive Elevators.* A complete catalog of passenger, freight and garage traction elevators, push button elevators, dumbwaiters, sidewalk and ash hoist elevators, 36 pp. Illustrated. Size, 8½ x 11 in.

Otis Elevator Co., 260 Eleventh Ave., New York City.

651. *Otis Geared and Gearless Traction Elevators.* Leaflets describing all types of geared and gearless traction elevators with details of machines, motors and controllers for these types. Illustrated. Size, 8½ x 11 in.

652. *Escalators and Inclined Elevators.* A comprehensive catalog illustrating the use of escalators for transporting people in stores, subways, railroad stations, theatres and mills; also inclined freight elevators for stores, factories, warehouses and docks adjustable to tide levels. 22 pp. Illustrated. Size, 8½ in.

Richards-Wilcox Mfg. Co., Aurora, Ill.

795. *"Ideal" Elevator Door Hardware.* Catalog No. 37. A catalog showing hangers for every type of elevator doors hand operated, interlocking door controllers, bar locks and accessories. 56 pp. Illustrated. Size, 8½ x 11 in.

Sedgwick Machine Works, 150 West 15th St., New York City.

1341. *Sedgwick Dumb Waiters and Elevators.* Catalog P contains valuable information, standard sizes, installation details and other data on hand power dumb waiters, fuel and log lifts, freight elevators, invalid elevators, automobile elevators and sidewalk elevators. Experience of nearly 35 years in the design, manufacture and installation of hand power dumb waiters and elevators for all purposes has been drawn upon in the compilation of this catalog. 32 pp. Illustrated. Size, 8½ x 11 in.

A. B. See Electric Elevator Co., 52 Vesey St., New York City.

169. Photographs and description in detail of elevator equipment manufactured by the A. B. See Electric Elevator Co. Size, 6 x 8 in.

34. POWER PLANT

Delco Light Co., Dayton, Ohio.

1218. *Cooling Your Drinking Water Supply with Frigidaire.* Descriptive booklet on the cooling of drinking water for public buildings, factories, hospitals, schools, restaurants, etc. 8 pp. Illustrated. Size, 6 x 9 in.

35. EQUIPMENT, STATIONARY

American Stove Co., St. Louis, Mo.

1050. *Handbook on Gas Ranges for Architects and Builders.* A practical book of data on gas ranges and pipe sizes for the files of the architect and specification writer. 32 pp. Illustrated. Size, 8½ x 11½ in.

Champion Dish Washing Machine Co., 15th and Bloomfield Sts., Hoboken, N. J.

1178. *Safe Road to Increase Profits.* Illustrated catalog which points out proven ways in which hotels and restaurants can save through application of modern equipment. Specifications for each Champion Model are given. (Blue prints covering each machine showing sizes and location of connections, etc., are also available.) 34 pp. Illustrated. Size, 7 x 10 in.

R. W. Clark Mfg. Co., 4311 Ravenswood Ave., Chicago, Ill.

1151. *Clark Directories and Bulletin Boards.* A. I. A. File No. 35n3. Interchangeable letter equipment for office building directory, hotel, bank, apartment and public building directory and bulletin boards. Booklet ready for filing contains detail drawings with dimensions and specifications for various styles and sizes of bulletin and directory boards. 8 pp. Illustrated. Size, 8½ x 11 in.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

35. EQUIPMENT, STATIONARY—Continued

- J. C. Deagan, Inc.,** 189 Deagan Bldg., Chicago.
783. *Deagan Tower Chimes.* Describing the important features of Deagan Tower Chimes and including information concerning the space requirements and construction required for installing chimes in towers and belfries. 8 pp. Size, $8\frac{1}{2} \times 11$ in.
- W. F. Dougherty & Sons, Inc.,** 1009 Arch St., Philadelphia, Pa.
764. *Kitchen Equipment for Hotels and Institutions.* Several catalogs covering a complete line of cooking apparatus.
- G & G Atlas Systems, Inc.,** 545 West Broadway, New York City.
983. *G & G Atlas Pneumatic Tube Systems.* A circular explaining the advantages of pneumatic tube systems for department stores, banks, hotels, office buildings, hospitals and industrial plants. Illustrations of installations and details. 12 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Kerner Incinerator Co.,** 641 E. Water St., Milwaukee, Wis.
1291. *Incinerators (Chimney-fed), Catalog No. 15.* (Architects' and Builders' Edition.) Describes principle and design of Kernerator chimney fed incinerators for residences, apartments, hospitals, schools, apartment hotels, clubs and other buildings. Shows all standard models and gives general information and working data. 16 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
1292. *The Sanitary Elimination of Garbage and Household Waste.* Folder contains complete information on the Kernerator for residences. 8 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Quick Meal Stove Co., Division of American Stove Co.,** St. Louis Mo.
595. *Catalog No. 131.* A catalog of gas (also combination of coal and cook stoves; gas boilers, soldering furnaces, cake bakers, hot plates, water heaters, gas heaters for rooms. Lorain Oven Heat regulations, etc. 56 pp. Size, 6×9 in.
- Richardson & Boynton Co.,** New York, N. Y., Chicago, Ill Philadelphia, Pa., Providence, R. I., Boston, Mass.
292. *Perfect Cooking Ranges.* Description and dimensions of the complete line of the new high enamel finish Richardson Perfect ranges with charts and information regarding combination coal and gas cooking ranges. 40 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- The Spencer Turbine Co.,** Hartford, Conn.
1239. *Spencer Central Cleaning Systems.* Vacuum cleaning apparatus for all purposes. Booklet completely describes the Spencer System of vacuum cleaning. A large number of buildings using this system are illustrated. 32 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
1240. *Spencer Engineering Data Book.* Handbook contains notes on vacuum cleaning and central cleaning plants, its installations, equipment and use. Valuable tables, notes and information useful in laying out central vacuum cleaning systems are included. 345 pp. Illustrated. Size, $4\frac{1}{2} \times 7\frac{1}{2}$ inches.

36. CONSTRUCTION PLANT

37. INSULATION

- Armstrong Cork & Insulation Co.,** 162 24th St., Pittsburgh, Pa.
1273. *Armstrong's Cork Board Insulation for Walls and Roofs of Buildings.* Ready to file catalog prepared and edited by the Architectural Council of Minneapolis, containing complete information on cork board insulation, arranged especially for the use of the specification writer and drafting room. A valuable reference volume. A. I. A. File No. 37b4. 66 pp. Illustrated. Size, $9\frac{1}{4} \times 11\frac{1}{2}$ in.
- The Philip Carey Co.,** Lockland, Cincinnati, Ohio.
379. *Pipe and Boiler Coverings. Catalog 1362.* A catalog and manual pipe and boiler coverings, cements, etc. Contains a number of valuable diagrams and tables. 71 pp. Illustrated. Size, 6×9 in.
- The Celotex Co.,** 645 North Michigan Ave., Chicago, Ill.
1063. *Celotex Specifications.* Specifications and details for Celotex insulating lumber. Arranged for Architects' files. 12 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Cork Import Corporation,** 345-349 West 40th St., New York City.
1251. *Novoid Cork Covering* for refrigerated lines and tanks and drinking water systems. Folder describes the material and gives suggested specifications. 6 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
1252. *Novoid Corkboard Insulation.* Folder illustrates and describes corkboard made in sheets 25×37 inches, split and finished full standard 12×36 inches in $1, 1\frac{1}{2}, 2, 3$ and 4 inch thicknesses. 6 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- The Insulte Co.,** Builders Exchange Building, Minneapolis, Minn.
1180. *The Insulation of Roofs with Insulte.* Containing a chart for the calculation of the saving in coal and radiation from the insulation of any type roof. In standard A. I. A. folder. Size, $8\frac{1}{2} \times 11$ in.
1181. *Prevention of Condensation.* A folder describing methods in the prevention of condensation and a chart from which the necessary insulation may be calculated. In standard A. I. A. folder. Size, $8\frac{1}{2} \times 11$ in.

38. LANDSCAPE.

- Robert C. Reeves Co.,** 187 Water St., New York City.
1225. *Dubois Woven Wood Fence.* Made in France. Booklet describing the uses, construction and erection of woven wood fences. A list of installations in the United States and price list are included. The use of these fences are well shown by a series of plates. 8 pp. 10 plates. Size, $5\frac{1}{2} \times 6\frac{3}{4}$ in.

39. ACOUSTICS

- The Celotex Co.,** 645 North Michigan Ave., Chicago, Ill.
1063. *Acousti-Celotex Specifications.* Specifications and details for the application and decoration of Acousti-Celotex for acoustical treatment. 12 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Johns-Manville Corp.,** 292 Madison Ave., and 41st St., New York City.
710. *Architectural Acoustics.* A treatise on the correction of architectural acoustics in churches, schools, hospitals, office buildings and other places. 24 pp. Illustrated. Size, 6×9 in.
- National Building Units Corporation,** 1600 Arch St., Philadelphia, Pa.
1246. *Sound Absorption of Cinder Concrete Building Units.* Bulletin No. 1 Technical Series. This bulletin interprets the results of investigations conducted by the University of Toronto and the Detroit Testing Laboratory on the sound absorption of cinder concrete building units and other materials. 8 pp. Illustrated. $8\frac{1}{2} \times 11$ in.

40. REGULATIONS

I PLANS AND DESIGNS

- American Face Brick Association,** 1754 People's Life Bldg., Chicago, Ill.
155. *The Home of Beauty.* A booklet containing fifty prize designs for small brick houses submitted in national competition by architects. Texts by Aymar Ambury II, Architect. Size, 8×10 in. 72 pp. Price, 50 cents.
- The American Pln Company,** Waterbury, Conn.
985. *American Renderers.* A series illustrating the work of American Renderers of which five of twelve are issued. A monthly publication free to architects. Each 4 pp. Illustrated. Size, 9×12 in.
- The Long Bell Lumber Co.,** R. A. Long Building, Kansas City, Mo
1175. *The Book of Lawn Furniture.* Contains about 100 designs for lawn and garden furniture. Sent free to architects who apply on their office stationery; to others, 10 cents a copy. 36 pp. Illustrated. Size, $6\frac{1}{4} \times 9\frac{1}{4}$ in.
- Ramp Buildings Corporation,** 21 East 40th St., New York City.
1021. *D'Humy Motoramps. Catalog No. 25.* Describes a type of construction for multi-floor garages with comparative data of other types, investment, cost and capacity data. 15 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
1022. *Garage Design Data.* Service bulletins to architects containing garage design data. Ask for preceding bulletins. 2 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Truscon Steel Company,** Youngstown, Ohio.
638. *Daylighting Schools.* A treatise on the daylighting and window ventilation of school buildings quoting eminent authorities, illustrated with diagrams of lighting data and details of suitable windows. 28 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

II GENERAL CATALOGS

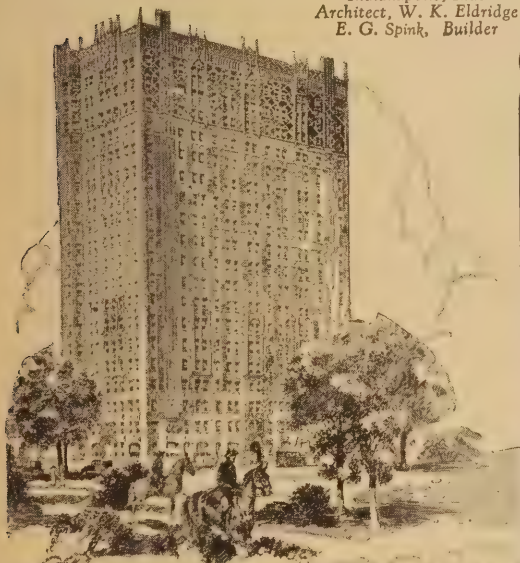
- American Lead Pencil Co.,** 220 Fifth Ave., New York City.
268. *Booklet C-20. Venus Pencil in Mechanical Drafting.* And interesting illustrated booklet showing the possibilities of the Venus Drawing Pencil for drafting. Size, 6×9 in.
- H. W. Covert & Co.,** 137 East 46th St., New York City.
775. *Fireplace Fittings in Iron and Brass.* A catalog of andirons, fire sets, fire screens, fenders, woodholders, willow wood baskets, hearth brooms, grates, candlesticks, lanterns and other accessories made in iron and brass. 36 pp. Illustrated. Size, $8\frac{1}{2} \times 8\frac{1}{2}$ in.
- Joseph Dixon Crucible Company,** Pencil Department, Jersey City, N. J.
325. *Finding Your Pencil.* A book explaining the various degrees of hardness of the Eldorado pencil and the grade most suitable for every man, who uses a pencil, be he business or professional man, clerk or draftsman. Accompanied by a color chart of Dixon colored crayons. 16 pp. and 4 pp. in color chart. Illustrated. In colors. Size, $3\frac{1}{4} \times 6$ in.
- The General Fireproofing Building Products,** Youngstown, Ohio.
1270. *The Fireproofing Handbook,* 9th edition. Contains description and data on complete line of steel building products including metal lath, concrete reinforcement, light channels, steel joists, steel tile, steel doors and windows, and waterproofing products. 32 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Johns-Manville Corporation,** New York City.
752. *Johns-Manville Service to Industry.* A complete catalog of Asbestos Roofings, Heat and Electric Insulations, Waterproofing, Industrial Flooring, etc. Complete details and specifications. Valuable reference book for architects. 260 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Truscon Steel Co.,** Youngstown, Ohio.
319. *Truscon Building Products. Form D-376.* Contains a brief description of each of the Truscon Products. 112 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- A. Wyckoff & Sons Co.,** Elmira, N. Y.
397. *Wyckoff Wood Pipe. Catalog No. 42.* A description of machine-made woodstave pipe and Wyckoff's express steam pipe casing. Contains also a number of pages of useful formulas and tables for hydraulic computation. 92 pp. Illustrated. Size, 6×9 in.

III FINANCING OF ENTERPRISES



Kenrick Sq. Apts.
St. Louis, Mo.
Architect, Norman B. Howard

Marott Apt. Hotel
Indianapolis, Ind.
Architect, W. K. Eldridge
E. G. Spink, Builder



1448 Lake Shore Drive
Chicago, Ill.
Architects
Childs & Smith
Builders
Baird & Warner



Broadway at Fourth Apts.
Cincinnati, O.
Owner, Dale G. Ebersole
Harry Hake, Architect
Charles Kuch
Associate Arch.

Moreland Courts
Cleveland, O.
Architect, Alfred W. Harris

Money Saved— the Garbage Can was Banished!

WHEREVER installed, the Kernerator attracts tenants and saves money. The savings come in lowered tenant turnover, lowered janitor costs, lessened fire hazard, eliminated cost of garbage cans and their replacement, neater premises and reduced cartage expenses.

For, at no cost, the Kernerator handles *all* waste—not alone garbage, but sweepings, tin-cans, papers, magazines, wilted flowers, even old razor blades. Dropped into handy hopper doors on floors above, the refuse falls to the brick combustion chamber in the basement. Lighted with a match (no fuel required), everything is burned completely except tin cans and similar non-combustibles which are flame-sterilized for removal with the ashes.

See Sweet's 21st edition, pages C3054-C3055. Or 'phone your local Kernerator representative. Offices in 67 cities.

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THE CHIMNEY-FED INCINERATOR

Garbage and
Waste Disposal



without Leaving
the Kitchen

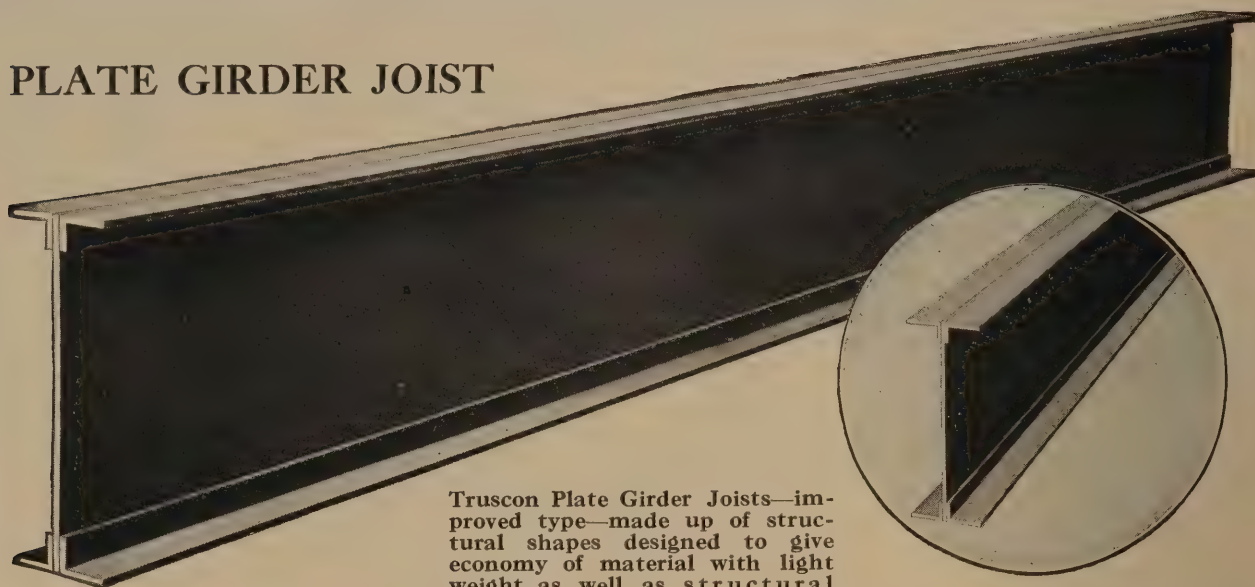
Drop All Waste Here—then FORGET It

[Did you get your copies of the Kernerator catalog
arranged in A. I. A. Folder for convenient filing?]

Whittier Apt. Hotel
Detroit, Mich.
Architect, Chas. N. Agres

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual

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Truscon Plate Girder Joists—improved type—made up of structural shapes designed to give economy of material with light weight as well as structural strength.

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FOR FIREPROOF FLOOR CONSTRUCTION

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*Full information, literature and
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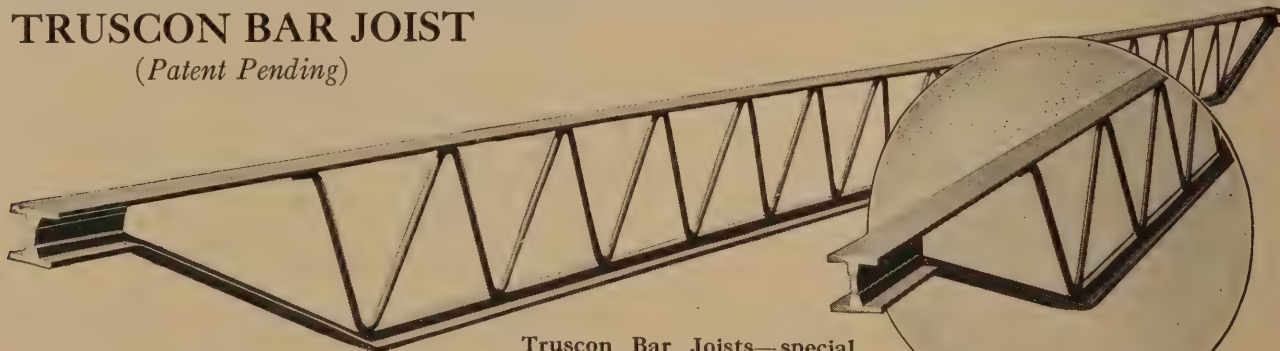
TRUSCON STEEL COMPANY, Youngstown, Ohio

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Warehouses and Offices in all Principal Cities

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(Patent Pending)



Truscon Bar Joists—special rolled steel shape for top and bottom chords continuous throughout length of joist. Wide, substantial bearing—continuous web member.

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YOUNGSTOWN, OHIO

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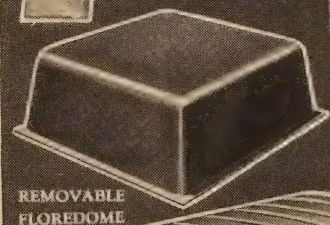
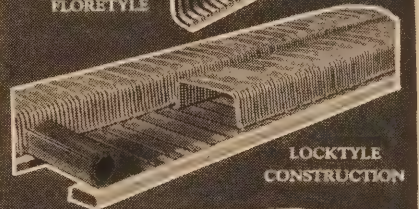
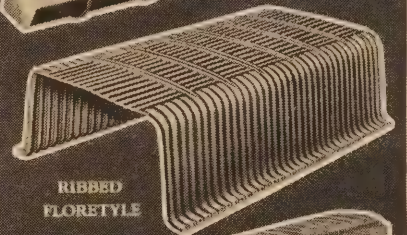
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REINFORCED CONCRETE for SAFETY
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Self-Releasing Fire Exit Latches

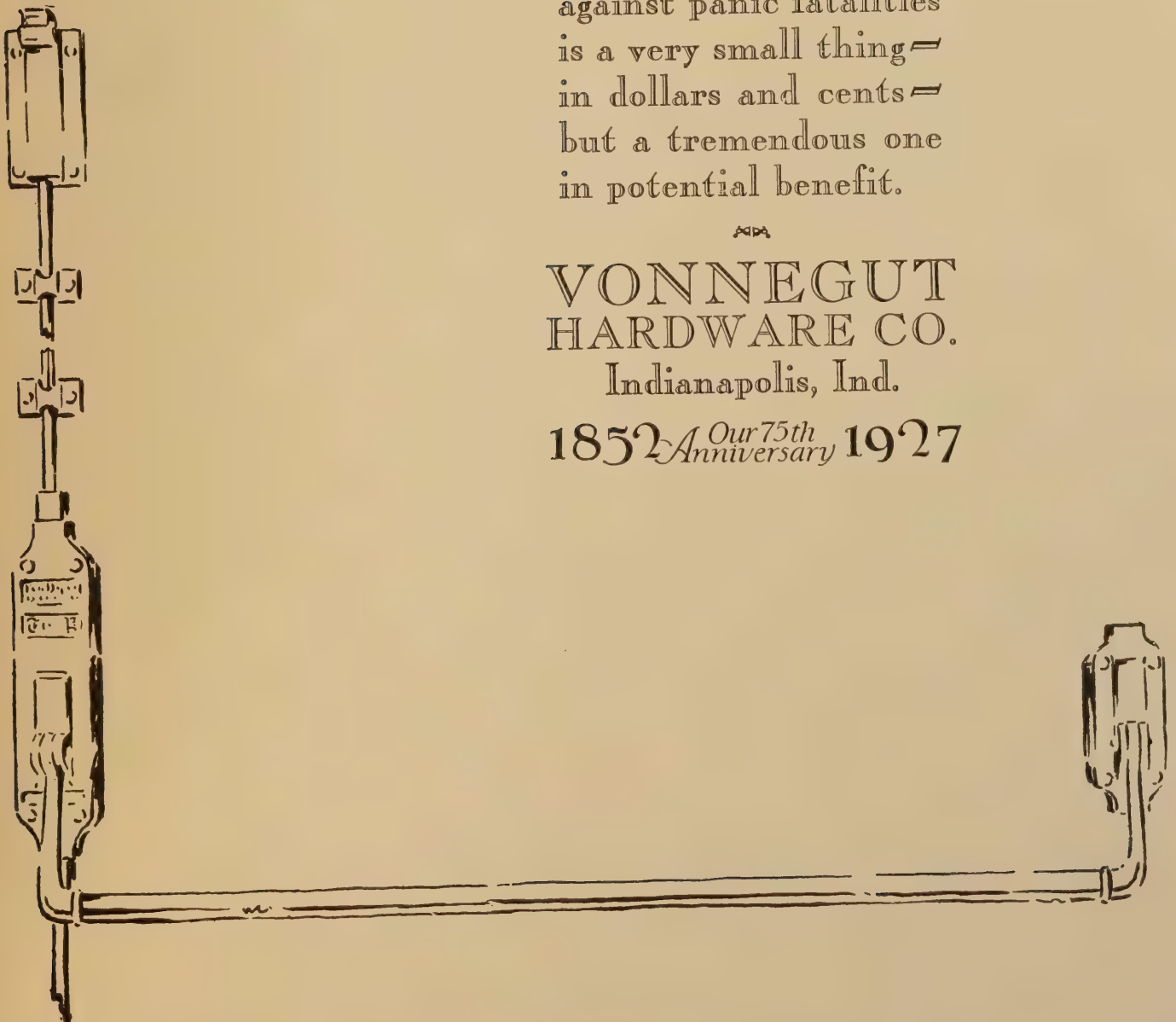
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is a very small thing=
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"Your varnish, stains and shellac were of very uniform quality; and enabled me to handle the job in a thoroughly satisfactory manner.

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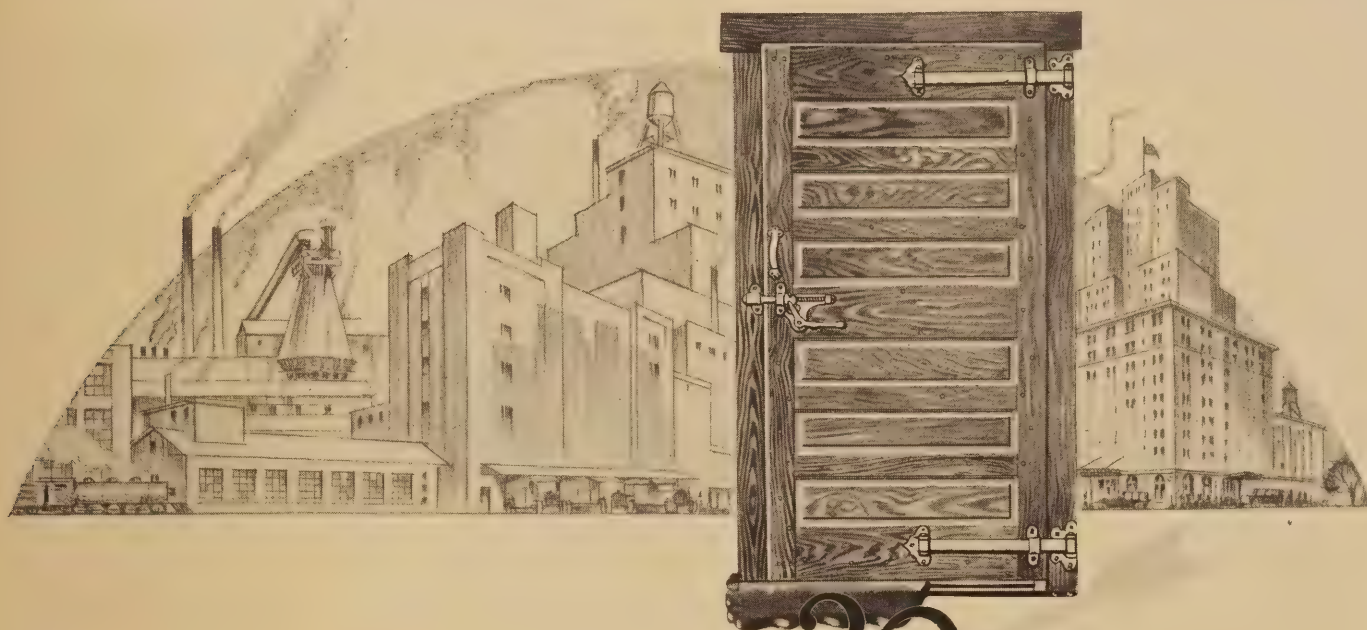
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Candy Factories
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Blue prints, specification data and complete information on Jamison Cooler and Freezer Doors and Automatic Ice Chutes are in our new Catalog. It becomes yours at your request.

TEN YEARS AGO this message might have had no particular interest for the average architectural reader of this magazine. Ten years ago Cold Storage Doors were found principally in Refrigerating plants.

But . . . *today* Cold Storage Doors are "standard equipment" for an ever-widening range of industrial, commercial and institutional structures. And the percentage of architects whose specifications have place for them is rapidly approaching the proportions of a majority.

Jamison Cooler and Freezer Doors—now ready to ship in various standard sizes and quickly built in special sizes—meet all requirements. They are constructed with painstaking care. They are lastingly durable. They are giving more dollars of service per dollar of cost to *over half* the world's Cooler Door users.

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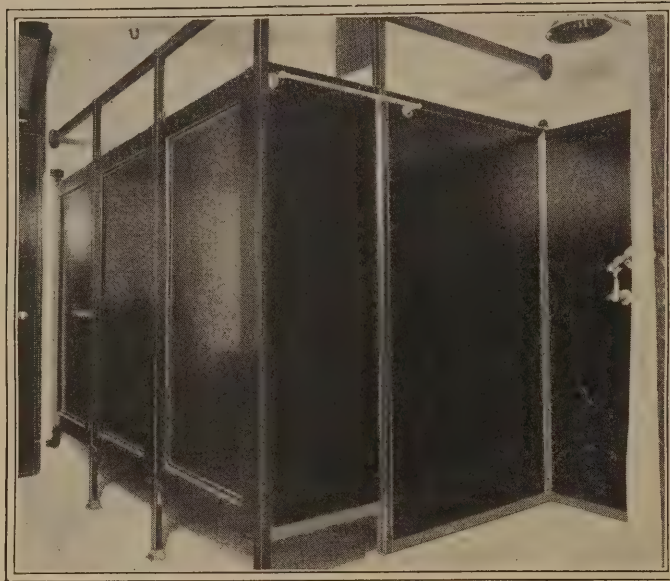
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**Weisteel
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UNIVENT and Glass—*make the difference*



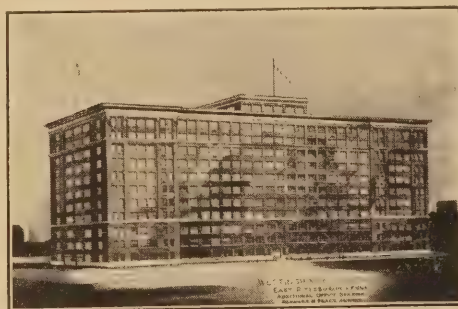
OUTSIDE — a sweeping spray of snow—a whirling wind—

But in the office, an automatically controlled, comfortable temperature—a dust-free, smoke-free, damp-free, stimulating atmosphere.

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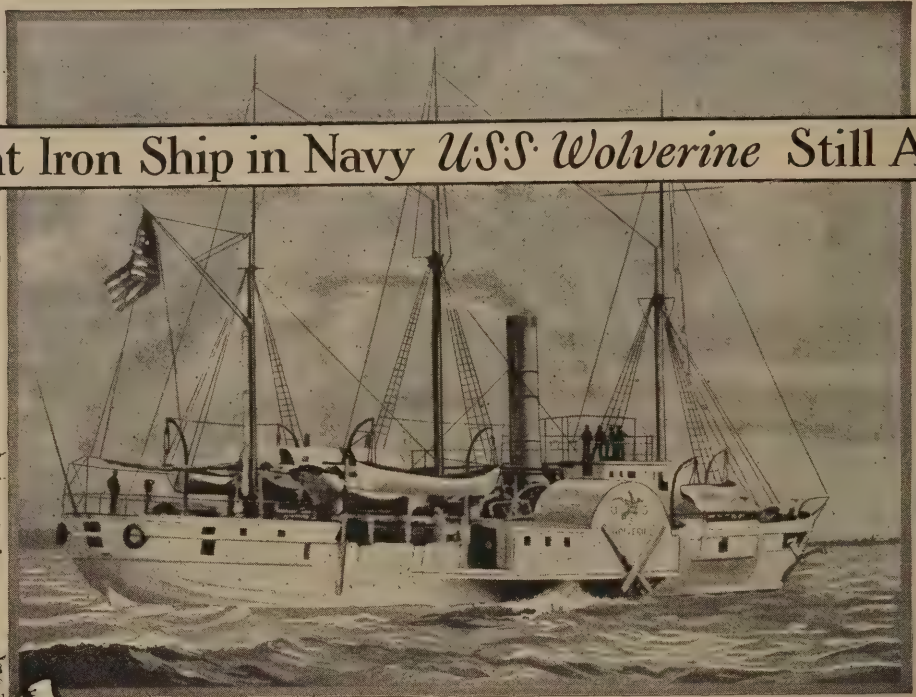
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Oldest Wrought Iron Ship in Navy *U.S.S. Wolverine* Still Active



"An Iron Ship Will Sink"

*So Believed Curious Crowds who Gathered in 1844
to see the Launching of the First Iron Ship*

FROM far and near, they came that day to Erie to see this piece of folly.

"A ship of iron can't float," they said.

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Established 1864 PITTSBURGH, PA.
Distributors in all Jobbing Centers

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**Spiral
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protects you against
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Also look for name and
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GENUINE WROUGHT IRON

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Rivet-Grip

STEEL JOISTS

In HOLLENDEN HOTEL, Cleveland



WALKER & WEEKS, Architects — The CRAIG-CURTISS Co., Contractors

Unusual Features of Hotel Construction Prove Economical

IN this twelve-story addition to the Hotel Hollenden in downtown Cleveland, all columns, girders and beams were fully fire-proofed with terra cotta or concrete while Rivet-Grip Steel Joist construction was used to carry floor loads to the principal structural members.

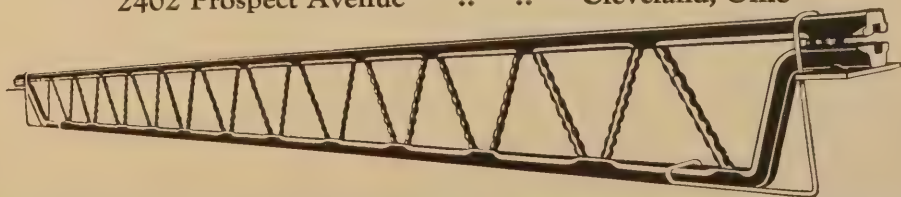
During construction, forms for concrete fire-proofing were hung from beams and girders and concrete around these members was poured concurrently with the concrete slab over the Rivet-Grip Steel Joists.

This composite type of construction gives a building which is fully fire-safe and allows considerable saving in time and material. Construction costs are lower because work can proceed regardless of temperature or other weather conditions. This is true because the strength of the structure is not dependent on any elements which may be slow in developing full strength. Due to the elimination of excessive dead weight in the floor system, foundations, columns, girders and other structural members throughout the building can be made lighter.

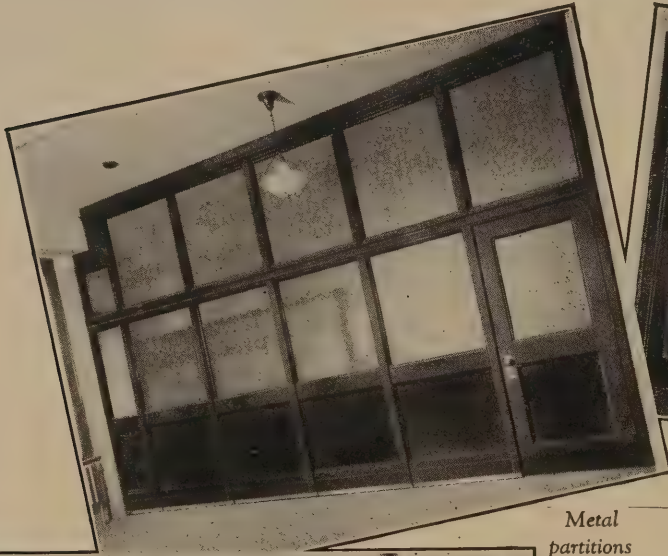
Rivet-Grip Steel Joist construction gives all the advantages of the highest grade fire-safe construction combined with speed and economy.

Write for table of safe loads and complete information.

THE RIVET-GRIP STEEL COMPANY
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Overcoming Difficulties Seldom Encountered



Metal partitions of great flexibility



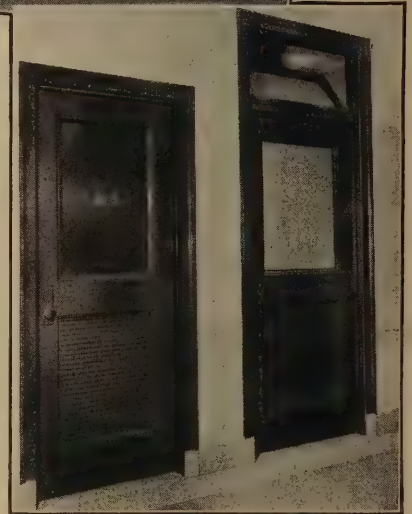
Partitions to accommodate beams and knee braces.



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Elevator doors that called for very accurate work.

Metal doors and frames; latter shipped in complete units.



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Architects: Perry, Shaw & Hepburn
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Contractors: Murphy-Quigley & Co.
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Hollow Metal Doors Office Partitions
Rolled Steel Door Frames Banking Room Equipment
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Superiority of Workmanship in U. G. I. Building Wins Several New Contracts in Philadelphia

"Jonesteel" engineering ability demonstrated again! Adjustable metal partitions of great flexibility were designed to accommodate beams and knee braces of varying dimensions. Bronze mop strips were made continuous at the floor line. The bottoms of all plinths were also fitted with bronze.

The metal door frames, of the combination buck, jamb and trim type with permanent welded joints, were shipped in complete units, providing the most rigid type of construction.

The pneumatic door closers on elevator doors called for unusually accurate work to provide minimum clearance and quiet operation. Our factories also furnished the counter work in the Treasurer's and Comptroller's offices.

Another convincing illustration of "Jonesteel" advanced engineering and erection skill!

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Jamestown Metal Desk Co., Inc.

JAMESTOWN, N. Y.

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HOT WATER FOR APARTMENT BUILDINGS PRACTICALLY WITHOUT COST

THERE is no need for a separate fire to heat the domestic hot water supply of any building, be it a small house or huge apartment.

FOR the Excelso Indirect Heater, utilizing the heating boiler, supplies hot water for all domestic purposes — one fire heating the building and hot water at the same time.

SPECIFY Excelso and please your clients with its genuine economy and absolute simplicity of operation.

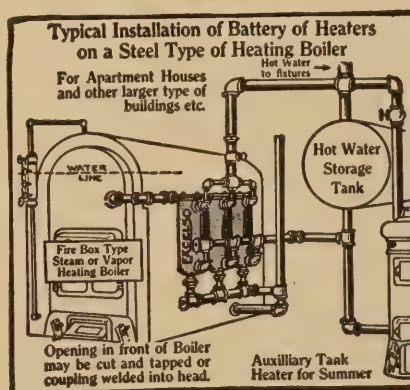
Ask your secretary to write for information on year-round hot water service at lowest cost.

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Sizes for One Family
or One Hundred Families



Triple, Double and Single-Coil types for 800 gal. tanks or more down to 30 gal. range boilers.



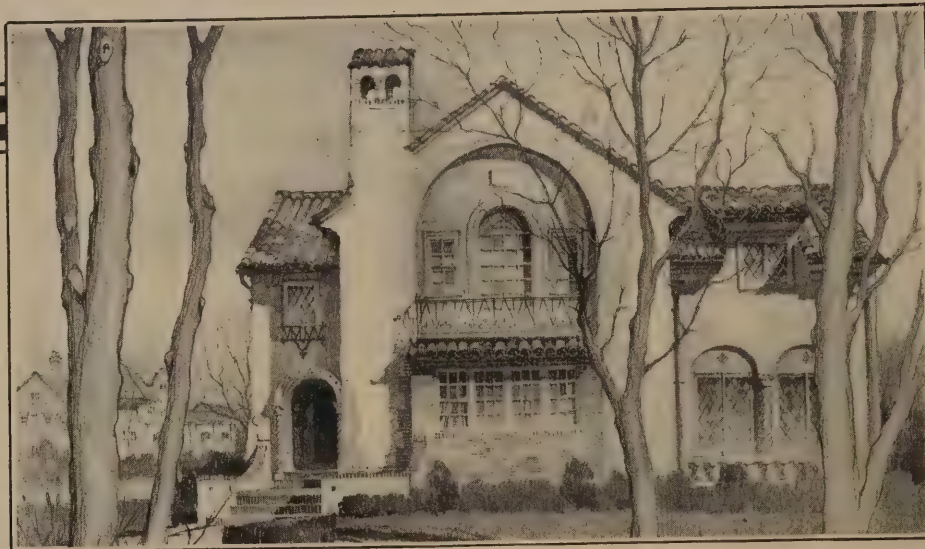
Excelso Products Corporation

Division of American Radiator Company

63 Clyde Ave.

Buffalo, N. Y.

Nationally Distributed By Leading Wholesalers and Boiler and Radiator Manufacturers



Residence at 149 Exeter St., Manhattan Beach, N. Y. Dietrich Construction Co., 574 Argyle Road, Brooklyn. Rendering by Samuel Chamberlain. Equipped with Ampinco-Kenney Showers.

Ampinco SHOWERS

Home is where the plumbing leaves nothing to be desired. Where every faucet, pipe and trap functions perfectly year after year. Where dependable showers send forth cleansing, stimulating sprays—hot when you want hot—cold when you want cold.

For freedom from leaks, stoppages, plumbers' repair bills—architects specify "Ampinco."

The Ampinco line offers wide diversity in both overhead and body showers. Of everlasting brass construction—as are all Ampinco products—they are outstanding examples of fine craftsmanship and beauty in shower design.

For complete information on the Ampinco line, write The American Pin Company Division, Scovill Manufacturing Company, Waterbury, Connecticut.



This booklet, "Ampinco Showers and Bath Fixtures," is yours for the asking. It contains illustrations of the showers and bath equipment used in the fine home pictured above as well as other numbers in the Ampinco line.

A SCOVILL PRODUCT

Scovill is the name of a broad service to industry. It places acres of factories, forests of machinery, hosts of skilled workmen, metallurgists, modern laboratories and trained representatives at the disposal of those who require parts or finished products of metal.

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual



LOMBARD ROMANESQUE ATLANTIC TERRA COTTA

THE Euclid Avenue Baptist Church is an exceptionally fine example of Lombard Romanesque. In every detail it is interesting.

The ashlar walls, *entirely of Atlantic Terra Cotta*, are built of blocks in eight different sizes, a variable warm buff in color, rough in texture.

Ten colors occur in the Terra Cotta screen over the entrance, and every modeled detail is brilliantly colored.

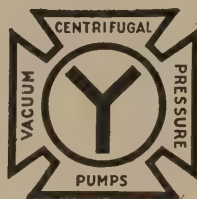
The building is fully described and illustrated in "Atlantic Terra Cotta" for April—sent on request.

Chimney Pot
Catalog
(revised)
on request.

Atlantic Terra Cotta Company
19 West 44th Street, New York

Atlanta Terra Cotta Company
Atlanta, Georgia





The Pumps of Yesterday and Today

YESTERDAY'S vacuum pumps will not necessarily answer to-day's heating needs.

The demands on a vacuum pump today differ from those of five years ago, two years ago or even last year.

Today's heating demands a pump of:

- high vacuum producing capacity;
- long service with freedom from costly repairs and shutdowns;
- economical operation with efficiency under *all* conditions met with in the modern vacuum heating system;
- ample capacity for keeping radiators and returns free from air and water;
- simplicity in design and operation so that it may be successfully maintained at maximum efficiency by ordinary attendants.

Young Pumps meet these requirements and are designed not only for service on the heating systems of yesterday but for the high vacuum heating systems of today.

Young Pumps are factory tested after being assembled as a complete unit. They are ready to run as soon as connected with feed wiring.

Supplied in standard units of seven capacities.

TABLE OF CAPACITIES

| Size | Square Feet of Radiation |
|------|--------------------------|
| V0-A | 5,000 |
| V1-A | 8,000 |
| V2-A | 16,000 |
| V3-A | 26,000 |
| V4-A | 40,000 |
| V5-A | 65,000 |
| V6-A | 100,000 |

YOUNG Pump COMPANY

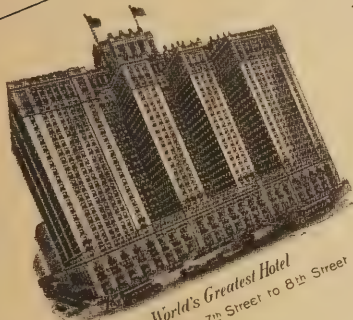
DUNHAM BUILDING

450 East Ohio Street Chicago, Illinois

FACTORY: Michigan City, Indiana

In Canada: C. A. Dunham Co., Ltd., 1523-41 Davenport Road, Toronto

THE MANAGER OF THE WORLD'S LARGEST HOTEL WRITES ABOUT JEWETT REFRIGERATORS



The World's Greatest Hotel
Michigan Boulevard - 7th Street to 8th Street

THE STEVENS

Chicago, May 7th, 1927

The Jewett Refrigerator Co.,
Buffalo, New York.

Gentlemen:

Now that the Stevens Hotel is opened, I want to write a word of congratulation to you for the efficient manner in which you handled the largest refrigerator contract the world has ever known.

Before placing the contract with you, I personally made an investigation of various makes of refrigerators in hotels all over the Country and found that JEWETT'S "stand the gaff" of hotel service. Of course, we expected superlative quality when we awarded you the contract for The Stevens, but I can truthfully say your refrigerators not only meet the specifications in every way, but actually exceed my expectations.

Your refrigerators were installed without any hitch anywhere at any time, and we have had a most satisfactory demonstration of the skill and experience of your engineering staff and erecting crew.

With best wishes,

Yours very truly,
STEVENS HOTEL COMPANY
Vice President

EJS:AMA

A Few Among Many Notable Jewett Installations

Hotels Statler,
In all Statler Cities
The Drake, *Chicago*
The Commodore, *New York*
The Biltmore, *Los Angeles*
The Mount Royal, *Montreal*
The King Edward, *Toronto*
The Olympic, *Seattle*
The Ritz-Carlton, *New York*
Vanderbilt Hotel, *New York*
Chateau Frontenac, *Quebec*
Hotel Sinton, *Cincinnati*
New Palmer House, *Chicago*



HOLABIRD & ROCHE
Architects

A CHARACTERISTIC of Jewett Refrigerators is the repeat installations they get. Builders, architects and operators who have once become familiar with Jewett quality and service invariably think in terms Jewetts on new and additional buildings they equip. We will be glad to design refrigerators from blue prints of floor plans or furnish any advisory service you may require without obligation.

THE JEWETT REFRIGERATOR CO., BUFFALO, N. Y.
16 E. 40th St., New York 62 Summer St., Boston 722 Story Bldg., Los Angeles
2036 E. 22nd St., Cleveland 38 So. Dearborn St., Chicago

JEWETT

REFRIGERATORS

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual



Beauty and Permanence —with Insulation for Warmth and Quiet



THE CHARM of a beautiful floor is irresistible. When, in addition, that floor is easy to walk on, resilient and warm underneath, the effect of good taste and comfort is complete.

Novoid Cork Tile has many properties which recommend it as a flooring material. It is a non-conductor of heat which means a warm floor. It wears well, giving years of service under unusually severe conditions. A cork tile floor, installed in a Bridgeport, Connecticut restaurant 29 years ago, is still in service today, showing but slight signs of wear. The various shades of

brown in which Novoid Cork Tile comes can be harmoniously blended into an unlimited number of beautiful patterns, each attractive and pleasing. Since cork is a resilient material, a cork tile floor is easy to walk on, furnishing a secure and comfortable footing surface which "gives" slightly under pressure. A cork tile floor is quickly and easily laid. Finished, it presents a smooth unbroken surface.

We shall be glad to send you samples of the three shades of Novoid Cork Tile, together with a table giving sizes available.

Novoid Cork Tile

CORK IMPORT CORPORATION

Novoid Corkboard
for
Roof Insulation



345 W. 40TH ST. NEW YORK

Novoid Cork Covering
for
All Refrigerated Lines

Beauty and Permanence with Insulation for Warmth and Quiet

ATLANTA

BOSTON

BUFFALO

CHICAGO

PHILADELPHIA

ST. LOUIS

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual

The Most Used Room in the Home

DOMESTIC SCIENCE EXPERTS agree that the kitchen is the most used room in the home. And everybody agrees that the cook stove is the most used piece of kitchen equipment. Then why not give the kitchen and the cook stove the planning-consideration which they deserve?

Gas is the preferred cooking-fuel. And a Red Wheel Gas Range is the preferred type of gas cooking appliance: *first*, because the Red Wheel gives the home-maker automatic control of the oven heat at any desired temperature—making perfect baking-results possible at all times; *second*, because Red Wheel Gas Ranges have been advertised in the leading national publications for more than eight years—the largest cook stove advertising campaign run by any manufacturer.

More than 2100 schools and colleges use Red Wheel Gas Ranges to teach the art of cookery. Hundreds of thousands are in constant use in private homes, apartments and in the kitchens of public buildings.

Red Wheel Gas Ranges will enhance the beauty of your kitchens. Your buildings will sell more quickly, tenants will remain longer.

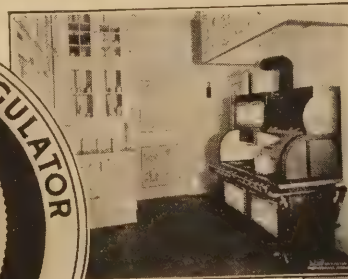
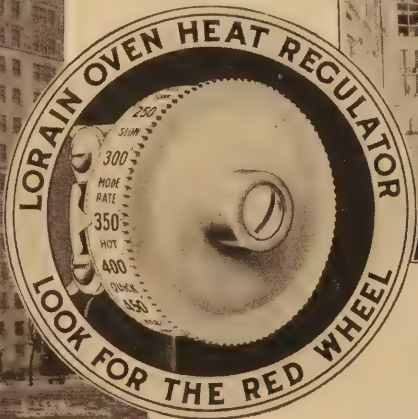
Only these six makes of Gas Ranges are privileged to use the Lorain Red Wheel: **Direct Action, New Process, Quick Meal, Reliable, Clark Jewel and Dangler.** For specific data concerning sizes and styles for every type of kitchen, see Sweet's Catalog, 21st Edition, Pages C2977—C2986 or send for our Handbook on Gas Ranges for Architects and Builders.

AMERICAN STOVE COMPANY

Largest Makers of Gas Ranges in the World
333 Chouteau Ave. :: St. Louis, Mo.

Apartment Building at 209 Lake Shore Drive, Chicago. Forty-six kitchens are furnished with Lorain-equipped Reliable Ranges.

Views showing three of the forty-six Lorain-equipped Gas Ranges installed in the Chicago Apartment Building illustrated at the left.



Unless the Gas Range has a RED WHEEL it is NOT a LORAIN



LORAIN

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OTIS

FOR NEARLY THREE QUARTERS OF A CENTURY
THE WORLD'S WORD
FOR
ELEVATOR SAFETY

OTIS ELEVATOR COMPANY
OFFICES IN ALL PRINCIPAL CITIES OF THE WORLD



*Legislative Building of the Capitol Group
at Olympia, Washington
furnished with*
HARDWICK & MAGEE
Wilton Rugs and Carpets

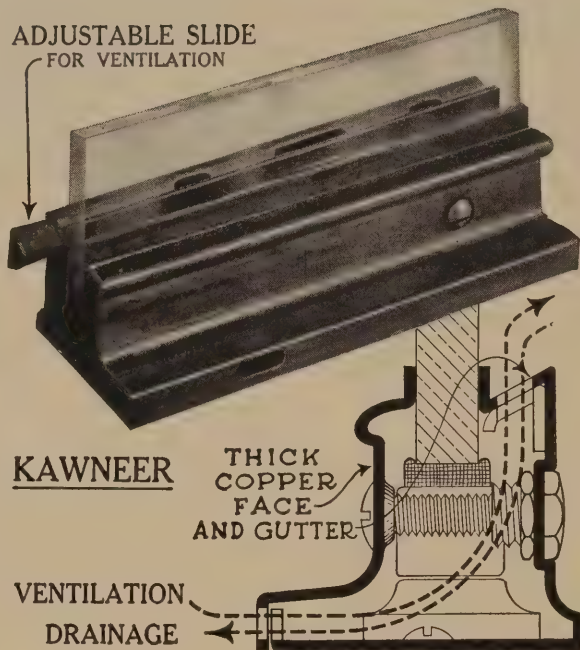


THIS stately building is indeed a magnificent setting for Hardwick & Magee rugs and carpets which very appropriately and beautifully cover the floors. A large quantity of Bundhar Melrose Wilton carpet and many extra large sized Bundhar Imperial Wilton rugs are being used. These floor coverings, with their beauty of appearance and splendid wearing qualities, were most worthy selections.

HARDWICK & MAGEE COMPANY
Lehigh Avenue and Seventh Street Philadelphia

NEW YORK CITY—295 Fifth Ave., P. J. Donovan & Co.
CHICAGO—29 E. Madison St., John Carney.
ST. LOUIS—205 Granite Bldg., George B. Parsons.
BOSTON—52 Chauncy St., E. F. Pillman & Son.

DETROIT—1120 Book Bldg., H. W. Faust.
MINNEAPOLIS—Hotel Dyckman, S. M. Koons.
ATLANTA, GA.—W. A. Niall, 403 Rhodes Bldg.
PASADENA, CAL.—244 S. El Molino Ave., H. A. Fitzgerald.



PHOTOGRAPH and diagram of a Kawneer hollow metal sash. This sash provides drainage, ventilation and plate glass protection. Age and rough usage will not affect its strength and beauty. The heavy copper mouldings from which Kawneer sash and bars are built require no wood reinforcement.



KALAMEIN CONSTRUCTION consists merely of wood strips covered with thin copper. The wood, being perishable, is subject to decay, thus exposing the glass to unnecessary breakage. The thin, soft copper covering is easily dented and defaced. This construction does not give the resiliency found in Kawneer.



Back view of Kalamein showing rotted condition of wood filler after only a few years of service.

**THE PRINCIPLES EMBODIED IN KAWNEER
STORE FRONT CONSTRUCTION MAKE IT SAFE
AND DURABLE FOR ANY TYPE OF STORE FRONT**



THE
Kawneer
COMPANY
NILES MICH.

BRANCH OFFICES AND SALES AGENCIES IN 128 CITIES

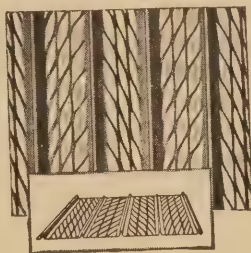
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2 New Ceco Products

for Better Ceiling Construction

Ceconomy $\frac{1}{4}$ " Rib Lath and Ceco Hook Hangers

ANSWERS a demand for a Metal Plastering base and reinforcement which—(1) prevents plaster cracks, (2) is fire resisting, (3) requires less plaster than other metal lath, and (4) is absolutely rigid yet can be moulded and formed in any desired shape.



Ceconomy $\frac{1}{4}$ in. Rib Lath weighs 3.6 lbs. per sq. yd., and is furnished in sheets 8 ft. and 8 ft. 6 in. long by 24 in. wide.

Ceconomy $\frac{1}{4}$ in. Rib Lath is a long spanning plaster saving rib lath. It readily spans 26 inches without sagging. It is also successfully used on wood or metal studs where a plaster saving lath is desired. Particularly adapted for use with Ceco Hook Hanger Ceiling construction (described below) where all its qualities are utilized.

THE new Ceco Galvanized Hook Hanger has many advantages over the old-style Hook Nail.

It is made of No. 10 gauge galvanized wire.

Holes are drilled in the wood soffit pieces for the reception of the Hook Hangers. This provides better workmanship, greater accuracy in placing of hangers and increases life of the form lumber.

It provides absolute and positive anchorage. The complete Hook gives an anchorage of 2 inches in the concrete.

The new hanger also provides a definite dimension of projection below the concrete joist, namely, $1\frac{1}{2}$ inches.

10 pieces weigh $2\frac{1}{2}$ pounds. Furnished in bags of approximately 4000 pieces. Weight approximately 104 pounds per bag. Order 30 pounds per 1000 square feet of ceiling.

Detail Below Shows the Combined Use of the Two Products in Conjunction with MEYER Steelform Construction

The Hook Hanger Ceiling Construction (below) involves the use of Ceco Galvanized Hook Hangers and Economy $\frac{1}{4}$ -in. Rib Lath. This construction provides a most economical lath ceiling. It is strong and rigid but must be brought up tight against the bottom of the joists. The elimination of channels and pencil rods, effects an economy in material and labor.

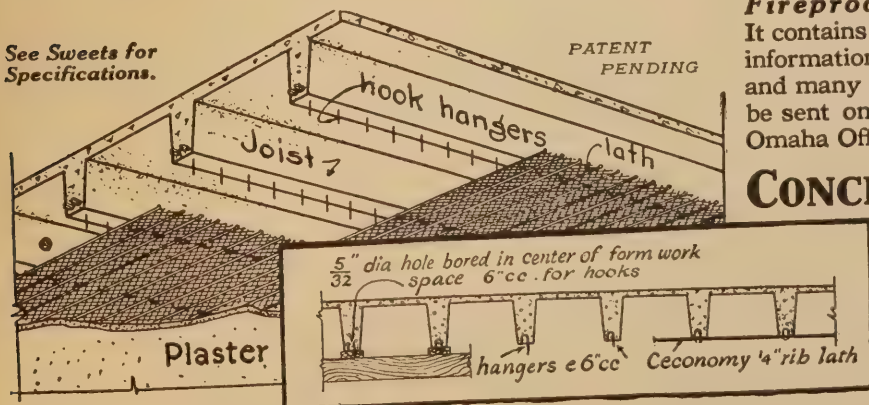
Place 10 gauge Ceco Galvanized Hook Hangers, $3\frac{1}{2}$ in. long at 6 in. centers in the bottom of all joists. $5/32$ in. holes for the reception of Hook Hangers are to

be drilled in the soffit boards, so that the forms may be readily removed, leaving the hangers projecting $1\frac{1}{2}$ in. beneath the bottom of the concrete joists. Economy $\frac{1}{4}$ -in. Rib Lath may then be applied with the ribs against the concrete and each hanger shall be clinched around the meshes of the lath.

This type of ceiling construction is rapidly being adopted by architects and contractors everywhere, due to the particularly adaptable features of this new Economy $\frac{1}{4}$ -in. Rib Lath.

See Sweets for Specifications.

PATENT PENDING



Send for our Handbook of Fireproof Construction.

It contains complete and detailed information on the subject above and many of others. A copy will be sent on request. Write our Omaha Office, Dept. 271



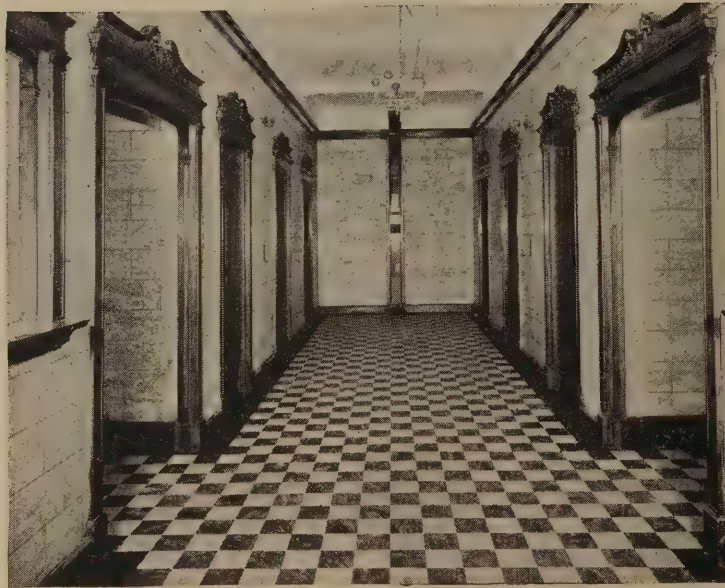
CONCRETE ENGINEERING CO.

Offices and Warehouses:

OMAHA
KANSAS CITY
MINNEAPOLIS
DES MOINES
DALLAS
LOS ANGELES

CHICAGO
DETROIT
MILWAUKEE
ST. LOUIS
HOUSTON
SAN FRANCISCO

Lobby in office of B. Geller & Sons, Furriers, 333 Seventh Ave., New York City. W. & J. Sloane Contract Marble Tile Inlaid Pattern No. 130, with black border, installed by Max Rothman, Inc., New York.



Linoleum for Architectural Uses

ARCHITECTS who wish to specify floors in keeping with their original plans will find unusual opportunities in W. & J. Sloane Linoleum.

For decades W. & J. Sloane have cooperated closely with architects in the selection and manufacture of appropriate floor coverings. From this association they gained a real appreciation of architectural needs.

This is reflected in their new line of linoleum, especially in the Contract Marble Tiles. These are heavy linoleums, designed particularly for long wear and made by the straight-line method. They are available in a selection of strikingly beautiful patterns, distinguished alike in design and coloring.

Due to improved manufacturing processes and the most careful workmanship, these linoleums are of exceptional quality. In pliability, elasticity, density and uniformity they greatly surpass old accepted standards.

Our selling agents will gladly supply you with patterns and quality samples. They also cooperate with architects in preparing specifications for linoleum floors. W. & J. Sloane Mfg. Co., Trenton, N. J.

W. & J. SLOANE LINOLEUM

BRANCHES AT:

BOSTON, PHILADELPHIA,
BALTIMORE, DETROIT,
CHICAGO, ST. LOUIS



BRANCHES AT:

DALLAS, LOS ANGELES,
DENVER, SAN FRANCISCO,
PORTLAND AND SEATTLE

W. & J. SLOANE Sole Selling Agents . . . 577 FIFTH AVE. at 47th ST. • NEW YORK



TRANSPORTATION
BUILDING

Los Angeles, Cal.

Architects

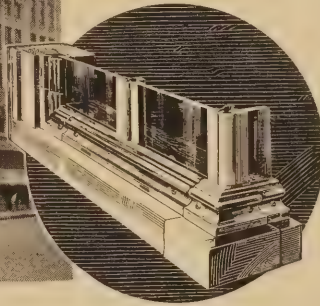
WALKER & EISEN

Contractors

EDWARDS, WILDE & DIXON

Store Fronts

DESCO



Specify DESCO — Put up a Good Front

When designing a building, keep in mind the people who will pass by after it is completed. The only impression many of them will get will be the impressions made by the exterior of the first floor . . . the store front construction. Consider the merchants who will occupy these stores, too. The architect's care in this respect will be

well repaid. The wide variety of simple and adaptable store front designs offers a choice that will help beautify buildings of every type or architectural period. Yet they are available at moderate cost.

Put "Desco" on your specifications, and you provide for a good front on your building.

Your request will bring complete working details and a price-list, without obligation. Sweet's Catalogue also contains further information. There is a distributor near you. A complete stock of "Desco" construction materials is carried in our New York City warehouse, 562 West 52nd Street.

DETROIT SHOW CASE COMPANY, 1670 Fort Street, West

DETROIT, MICH.

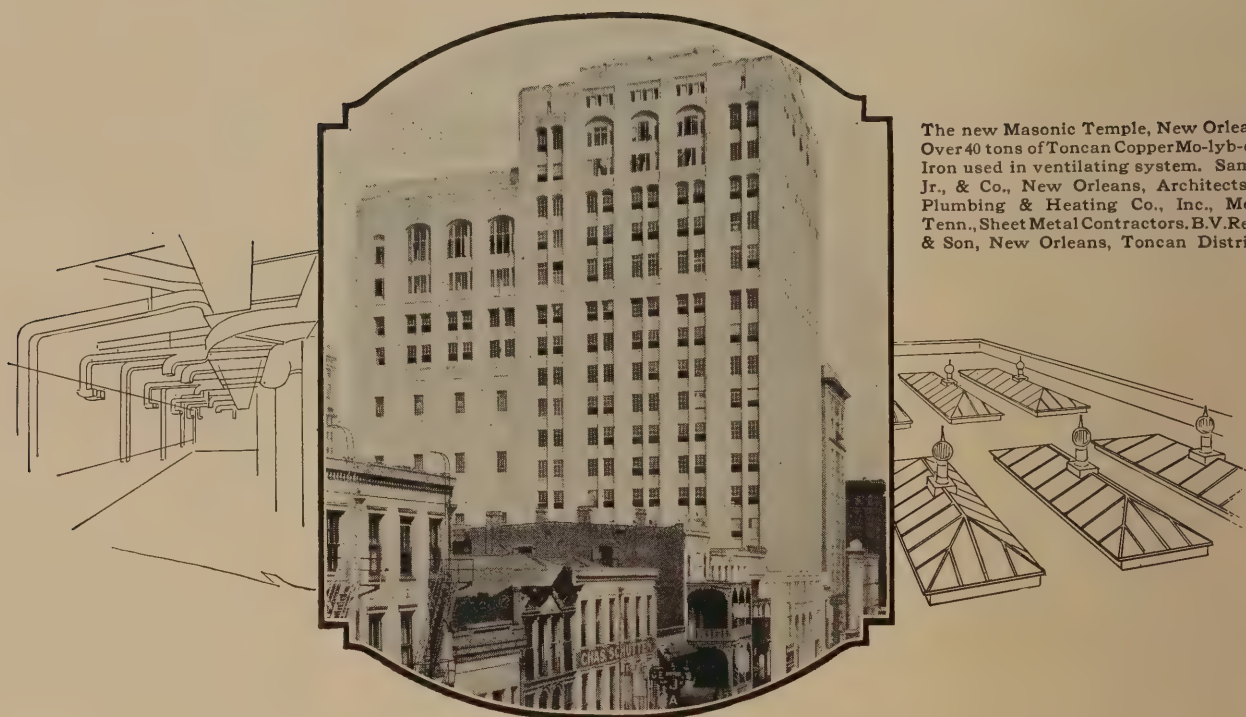
Desco
METAL

STORE FRONTS

(297)

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual

In Hundreds of New Buildings TONCAN Iron Is Specified



The new Masonic Temple, New Orleans, La. Over 40 tons of Toncan Copper Mo-lyb-den-um Iron used in ventilating system. Sam Stone Jr., & Co., New Orleans, Architects. Hull Plumbing & Heating Co., Inc., Memphis, Tenn., Sheet Metal Contractors. B.V. Redmond & Son, New Orleans, Toncan Distributors.

TONCAN Copper Mo-lyb-den-um Iron is being specified for the metal work of hundreds of new buildings. Leading architects know from experience what to expect from the use of Toncan. This rust and corrosion resisting iron stands the test of time and proves more economical as the years roll by. It defies moisture and the elements. Many important buildings have Toncan Iron ventilating systems, metal lath, cornices, roofing, spouting, etc.



Toncan Copper Mo-lyb-den-um Iron gets its ability to withstand the ravages of the elements through a special formula developed in America's largest metallurgical laboratories by expert metallurgists. Exact quantities of Copper and Mo-lyb-den-um are scientifically added to pure iron, producing a rust and corrosion-resisting metal of unequalled durability.

If you are not specifying this super-iron, you should investigate its possibilities. Write for complete information.

Central Alloy Steel Corporation, Massillon, Ohio

Makers of Agathon Alloy Steels

Cleveland

Syracuse

San Francisco

Detroit

Philadelphia

Chicago

Los Angeles

New York

Tulsa

St. Louis

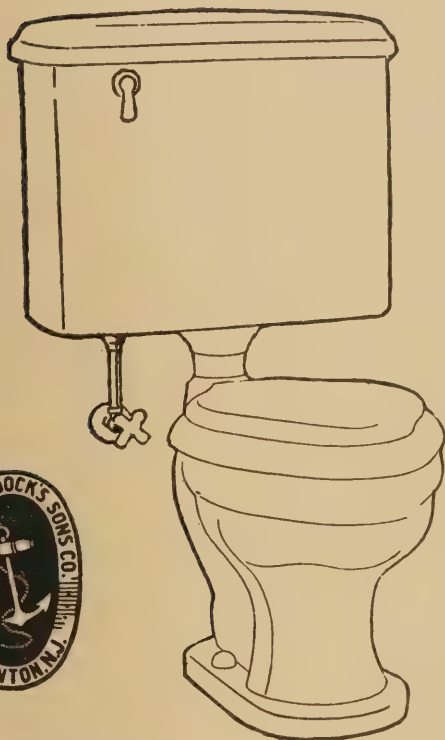
Seattle

Cincinnati

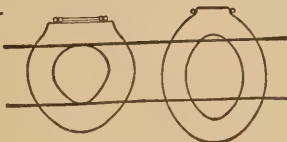
WORLD'S LARGEST AND MOST HIGHLY SPECIALIZED ALLOY STEEL PRODUCERS

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual

Comfort... where comfort counts for health



This diagram shows the comparative size and shape of the ordinary toilet bowl and a Durock toilet bowl.



Here is shown the ordinary toilet seat in comparison with a Durock toilet seat. Note openings.

Slight extra cost for much extra value

Durock Toilets with elongated bowls and seats, and their much greater healthfulness, comfort and sanitation, actually cost but very little more than the ordinary type and quality of toilet.

NATURE responds to an easy, comfortable position on the toilet by performing her eliminative functions freely and fully.

Durock Elongated-Bowl-and-Seat Toilets induce regular, normal action just as surely as a comfortable bed brings sleep.

Any tendency toward constipation is fostered by the cramped, constrained attitude imposed by ordinary toilets with short, round bowls and seats. On the other hand, the elongated bowl and seat, with the freedom and relaxation it permits, helps to correct any such disposition.

These bowls and seats are from 3 to 4 inches longer than those in old-fashioned, conventional toilets—and the water-surface within the bowl is correspondingly increased in area. (See illustrations.) More sanitary, as well as more healthfully comfortable.

Durock Toilets with this valuable new feature are made in several styles, with a range of prices to meet various requirements. All have Durock tanks as well as bowls, and white celluloid-surfaced seats with covers.

THOMAS MADDOCK'S SONS COMPANY
Oldest Sanitary Potters in America
Trenton, New Jersey

MADDOCK

DUROCK Bathroom Equipment



THOMAS MADDOCK'S SONS CO., Trenton, N.J.

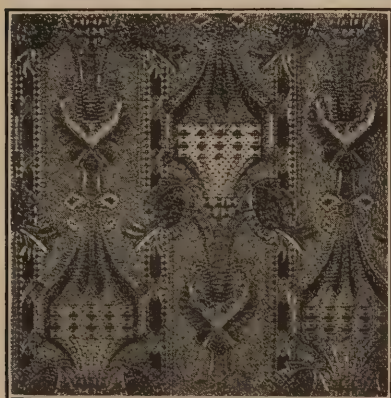
Date.....

Please send me, without charge, ☐ copies of your booklet, "The Two Vitally Important Fixtures in the Bathroom".

Name.....

Street Address..... City..... State.....

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*Lincrusta-
Walton*
TRADE MARK REGISTERED

THE red and gold of this most interesting Lincrusta-Walton pattern 606 formed the basis of the decorative scheme for this tea room setting. Red and gold table covers, red chairs and black and white tile pattern floor covering completed the harmony of the decorative scheme.

Lincrusta-Walton is made in fifty-two patterns and sixteen color combinations. They are completely illustrated in our portfolio and the samples which will be sent you with it will show you the many interesting features of this high relief wall covering.

LINCRUSTA-WALTON COMPANY

Division of The Tait Paper and Color Industries, Inc.

Plant and Head Office:

HACKENSACK, NEW JERSEY

Branch Offices: 3801 South Ashland Avenue, Chicago, Ill.

350 Madison Avenue, New York City

IMPERIAL WALL PAPER CO.

IMPERIAL CAMPBELL BRANCH

WM. CAMPBELL WALL PAPER CO.

Glens Falls, N. Y.

Chicago, Ill.

Hackensack, N. J.

Associated Companies:

HOBBS WALL PAPER CO.

PLATTSBURG WALL PAPER CO.

Hackensack, N. J.

Plattsburg, N. Y.

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Highland Hospital, Alameda Co., Calif. Henry H. Meyers, Architect. Glen B. Ashcroft, Structural Engineer. Clinton Construction Company, M. C. Vaughn (Globe Indemnity Co.) Schuler and McDonald, John E. Branagh, and Frederickson and Watson, Contractors. All of San Francisco or Oakland, California.

Concrete — The Ideal Material for Large Installations

ALAMEDA County's magnificent new \$4,000,000 Highland Hospital is built throughout of reinforced portland cement concrete—frame, walls, floors and roof. All the walks and driveways are also of concrete.

The exterior walls were designed as of column construction with typical column reinforcement of vertical bars and horizontal bands between windows. The structure is designed with a skeleton frame of reinforced concrete, the filler walls between columns and girders being placed monolithic with columns.

Neither the exterior nor the interior walls have projecting pilasters, the windows have no trim but the doors have metal trim. As a result, the structure is not only more attractive in appearance, but is easier to keep clean. The exterior surface is of portland cement dash, light buff in color.

Architects and builders are turning their attention more and more to portland cement concrete as the building material best suited to large installations—hospitals, public buildings, schools, monumental buildings—and to smaller structures as well.

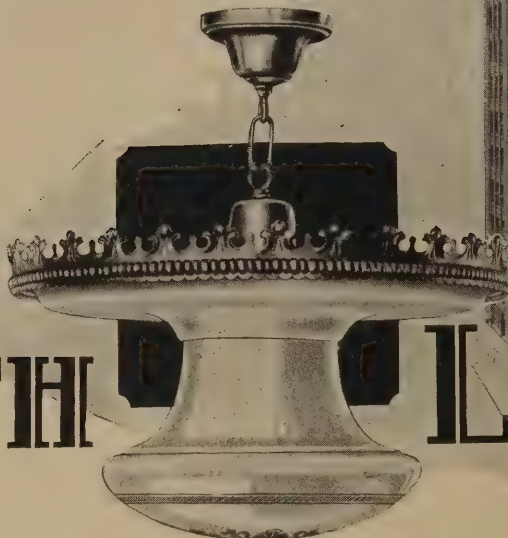
PORTLAND CEMENT *Association*
Concrete for Permanence CHICAGO

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Building of Frank G. Shattuck Co.,
(Schrafft's Stores) New York City. Russell G.
Cory, Architects. More than 600 GuthLites
installed by George W. Gates Co., New York City



GUTH LITE

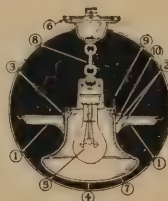


*Less than a year old
—but the result of 25 years experience*

GUTHLITE is less than a year old, yet its scientific design is the result of 25 years experience in designing and manufacturing illuminators for every type installation.

Architects and Illuminating Engineers pronounce it "the greatest invention since Brascolite" and they must mean it the way they specify GuthLite for all type commercial buildings.

New principles of design give lighting results never before accomplished. It eliminates all ceiling shadows and the adjustable reflector controls the direction of light vertically and horizontally. This means more light where most needed—light that is easy on the eyes because it eliminates all shadows on the working plane.



10 Superior Features

- 1 Adjustable white porcelain enameled reflector controls direction of light vertically and horizontally.
- 2 Light reflected to the ceiling as well as to the working plane.
- 3 Ceiling light increased or diminished by raising or lowering reflector.
- 4 Low brightness at the source. No glare and no spots of high intensity.
- 5 Lamp so placed that most of the light rays are diffused through neck of globe to reflector; directs them to working plane.
- 6 Adaptable for installation to any type electric outlet or ceiling construction.
- 7 Glass globe scientifically designed to produce efficient total output and low brightness at the visible part of the globe.
- 8 Easily and quickly installed. Open link hanger, so additional chain can be added if desired.
- 9 Patented, self-adjusting spring globe holder permits expansion of glass, preventing rattling or breaking.
- 10 Globe quickly applied or released. Cleaned and re-lamped in a minute.

Totally enclosed the globe can be quickly and easily removed for cleaning and relamping.

The design of the glass globe produces the maximum volume of light with low brightness at the source.

GuthLites give such wide light distribution that fewer units are needed to light a given area. They are furnished in plain or decorative types at prices that are surprisingly low. Its beauty of design and remarkable efficiency makes it the ideal light for hotels, schools, office buildings, hospitals or any other commercial installation.

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Locks & Hardware



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Wausau, Wis.

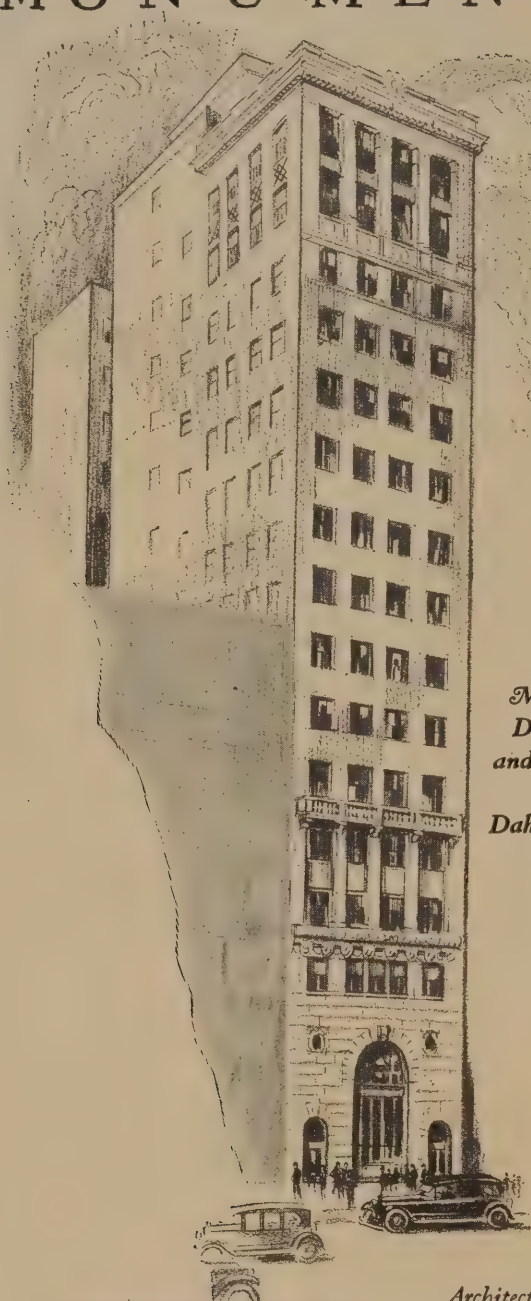
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MONUMENTS OF THE AGES



*Metal
Doors
and Trim
by
Dahlstrom*

The new
CORN EXCHANGE Branch
and the
GREAT WALL of CHINA

BEGUN before 200 B. C., it was thirteen centuries later before the Great Wall of China was complete. Its fifteen hundred miles of masonry protected the rich northern provinces of the Celestial Empire against invasion and pillage.

The notable new building that is to house the Forty-Second Street Branch of the famous Corn Exchange Bank of New York has a similar function of protection. Behind its walls lie millions of dollars in currency and securities. The funds of thousands of depositors are entrusted to its keeping.

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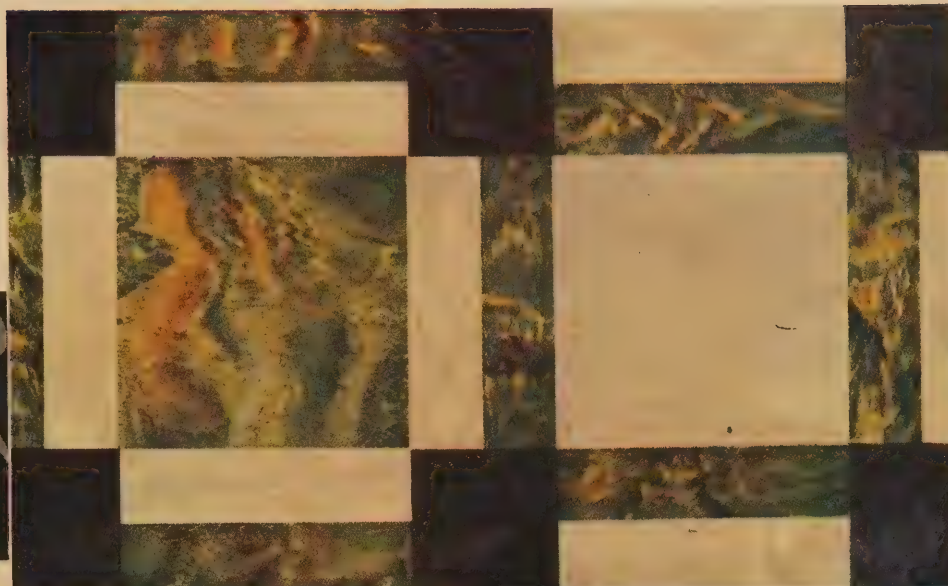
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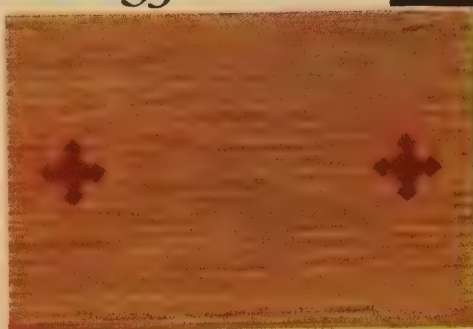
For the room where a floor of large pattern is desired this Armstrong's Marble Inlaid No. 81 is appropriate. The design repeats every 36 inches.



Wherever the public walks.. ..These floors enable you to design new decorative effects

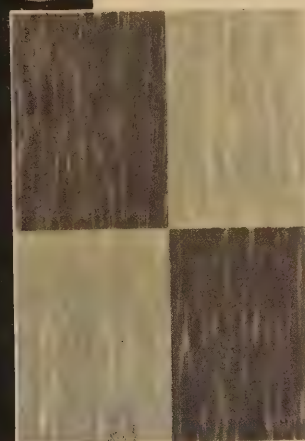
BUSY stores—shops—public buildings—wherever the public walks, decorative effects are naturally hard to achieve. For there is a scarcity of things which go to make up an attractive interior. Here, floors are all-important, because they become such a prominent area of the room. In your choice of floor, you can not only "make" the decoration—but actually *invite business!*

The designer who planned many of Studebaker's show-rooms, employed a smart pattern floor of Armstrong's Marble Tile Linoleum, laid with a black border. The designer of the Thom McAn shoe shops specified Armstrong floors as a means of displaying shoes as attractively as possible. For offices and libraries, schools and theatres—wherever decoration must go hand-in-hand with practicability—architects and decorators are specifying colorful, pattern floors of Armstrong's



Armstrong's Inset Jaspé No. J11. Figures, about 5½ inches across, are spaced every 27 inches.

Below: Heavy Straight Line Inlaid No. 432. Blocks are 9 x 9 inches.



For specifications, write for the 1927 file-size edition of "Armstrong's Linoleum Floors," or consult Sweet's Architectural Catalogue, pages 1400 to 1405.

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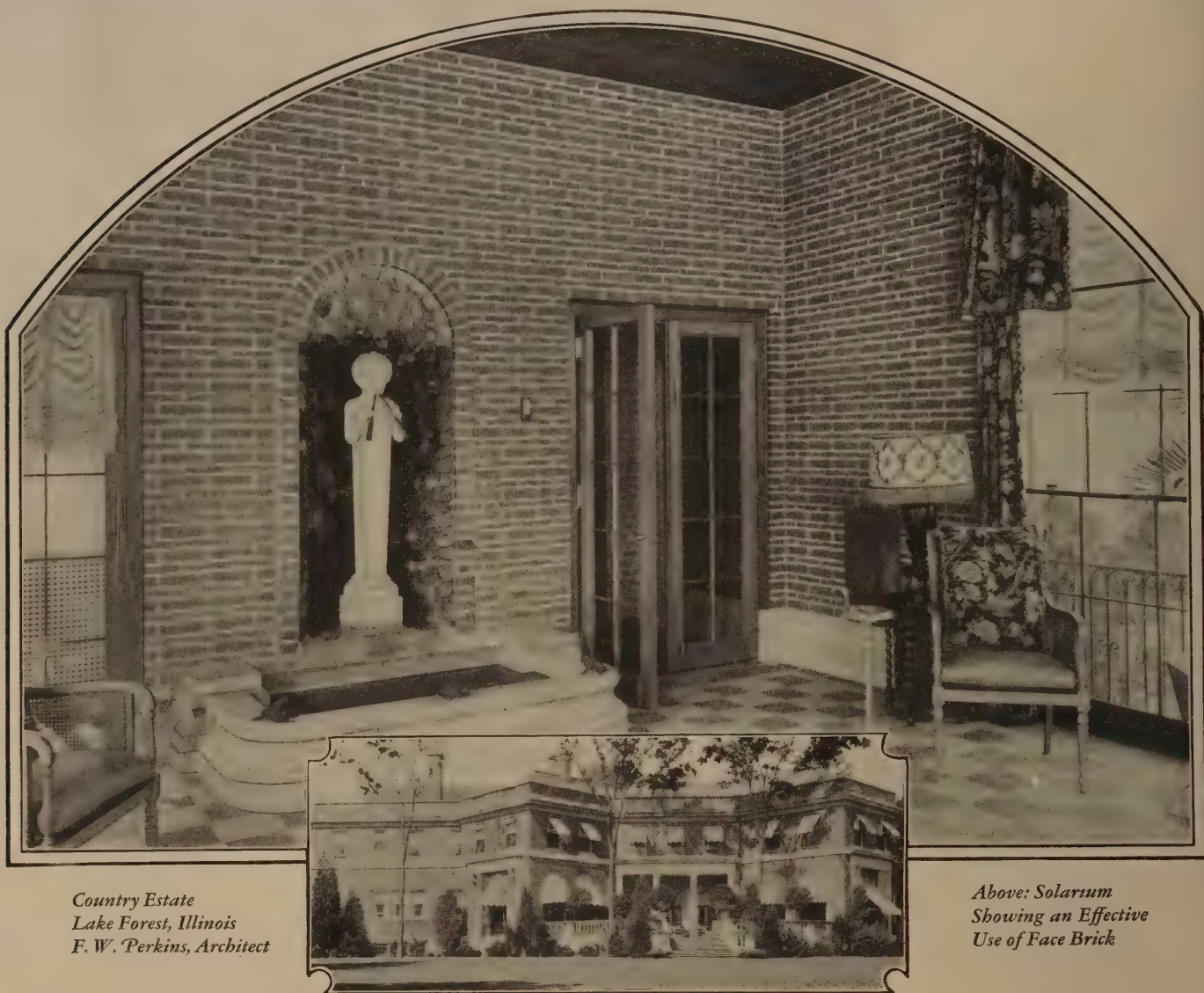
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the burlap back



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Lake Forest, Illinois
F. W. Perkins, Architect

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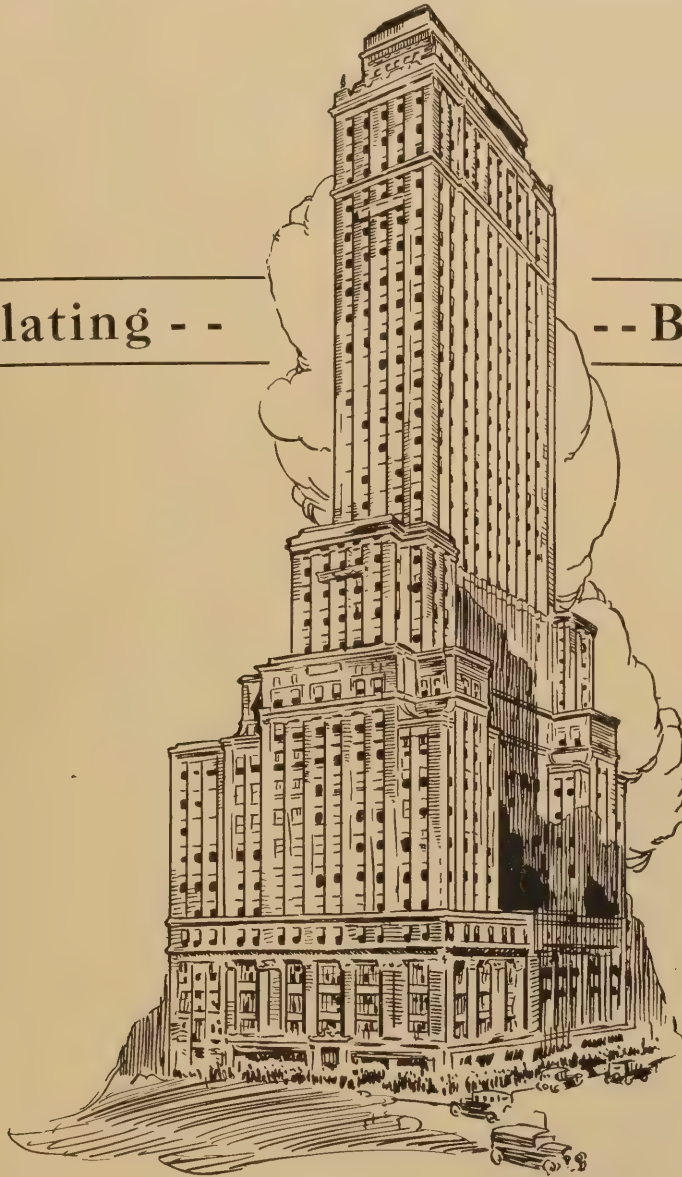


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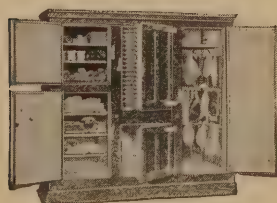
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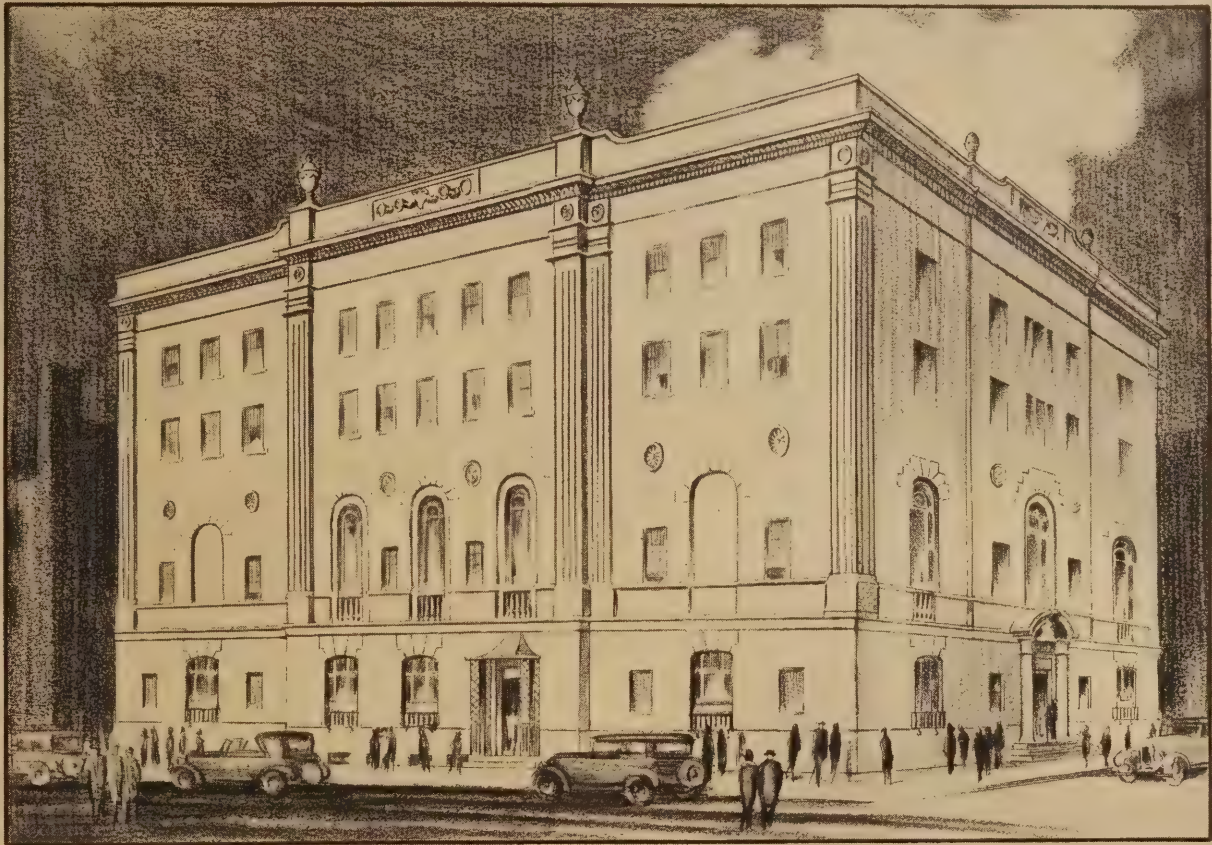


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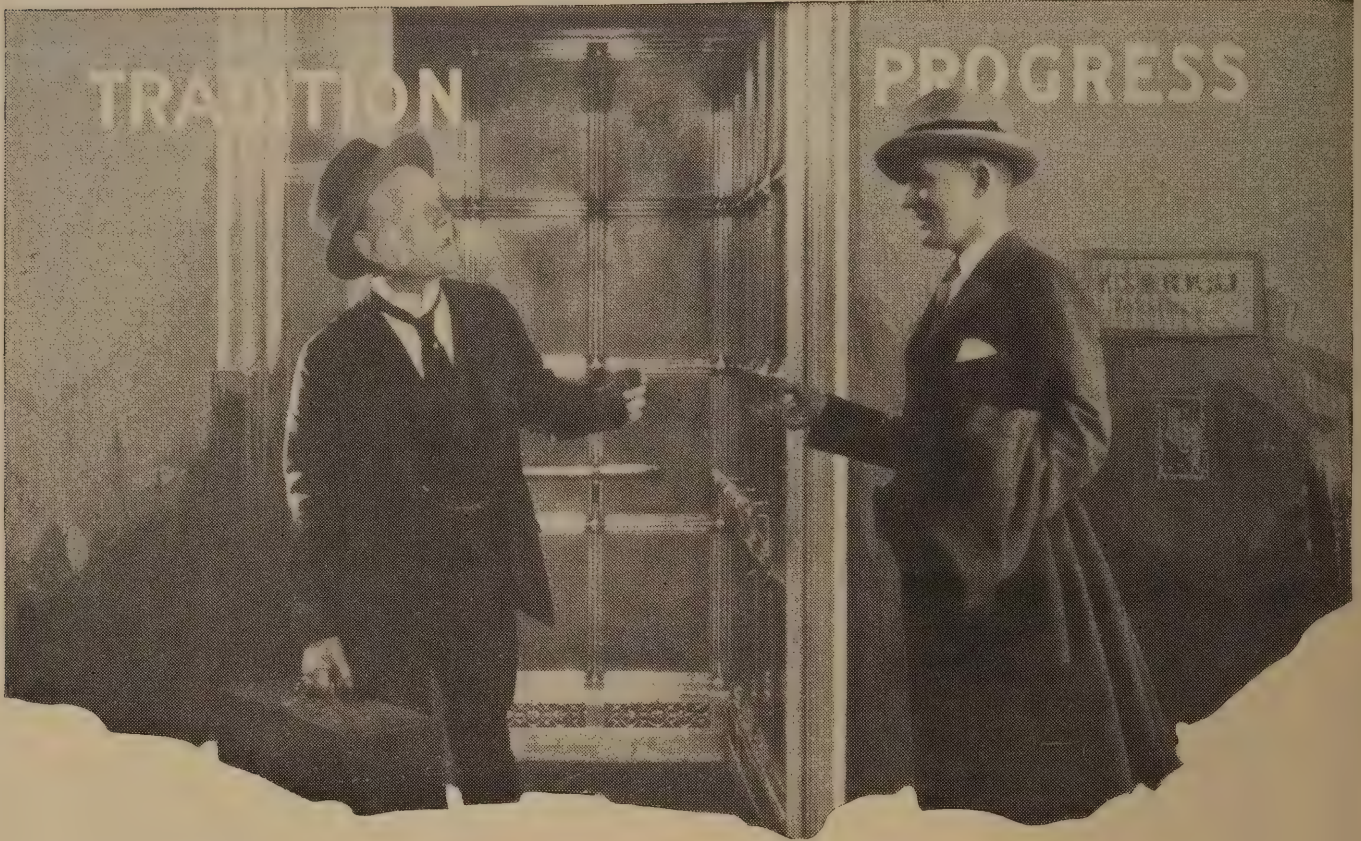
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(Editor's Note: This actually happened to a D.C. elevator drive enthusiast.)

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MB-4

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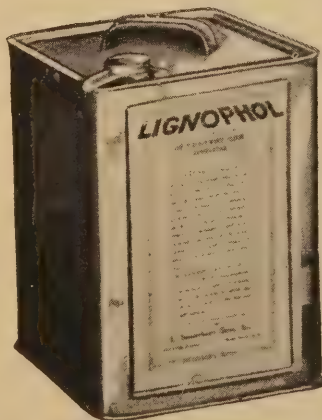
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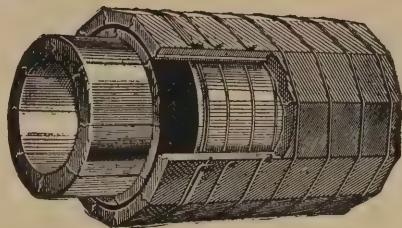
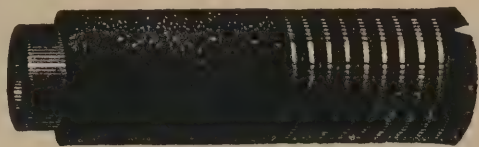
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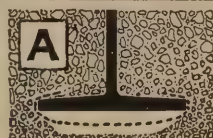


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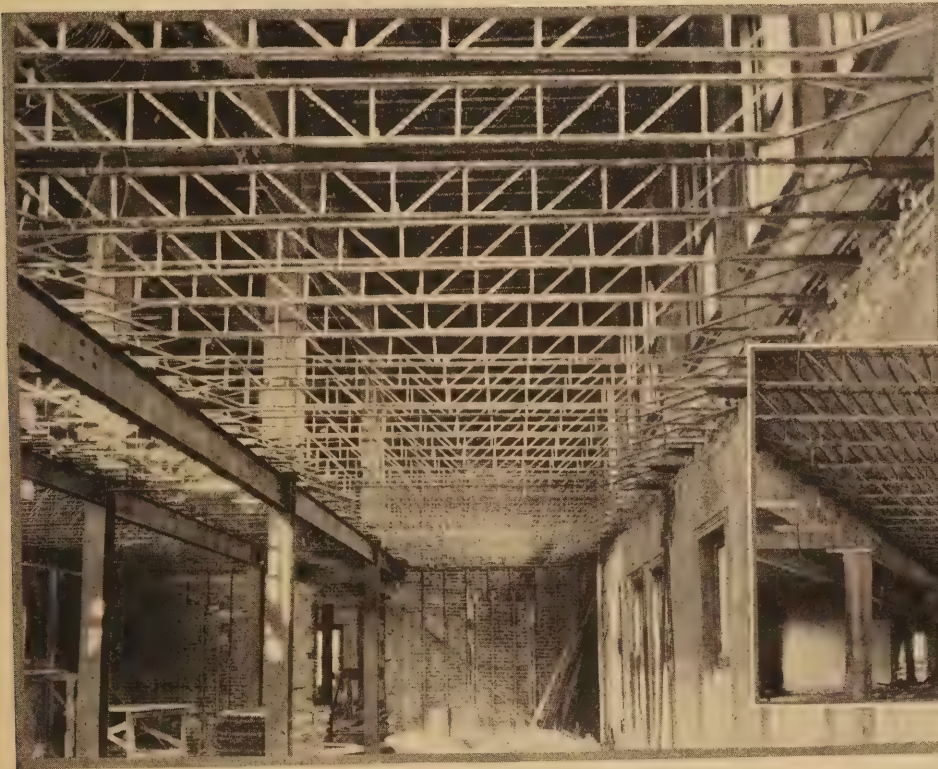
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★When It's Full, It's Full

(On the Incompressibility of Water)

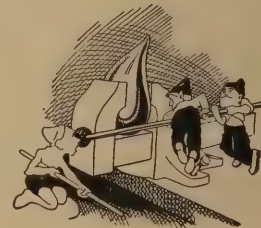
WATER is used as the standard of density for all other liquids and for solids because a given amount of water always occupies the same amount of space. When a container is full of water more cannot be added by compression because water is in itself incompressible.

You can readily find out by experiment that a concrete block after it dries out or "sets" shows no appreciable change in size but that it does show considerable change in weight. Naturally it grows lighter as the water dries out or evaporates.

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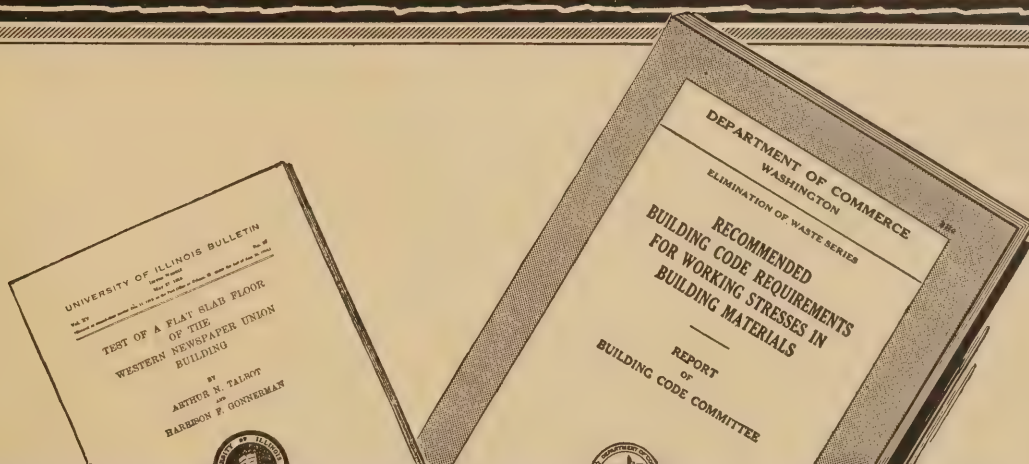
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[From page 22, report of U. S. Dep't of Commerce Building Code Committee]

THE ANNIVERSARY OF AN IMPORTANT ENGINEERING FACT

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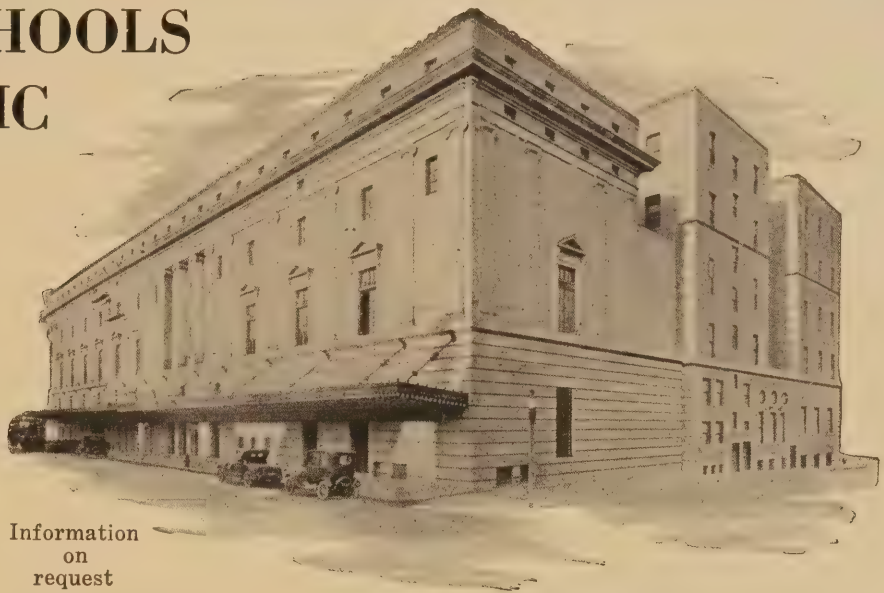
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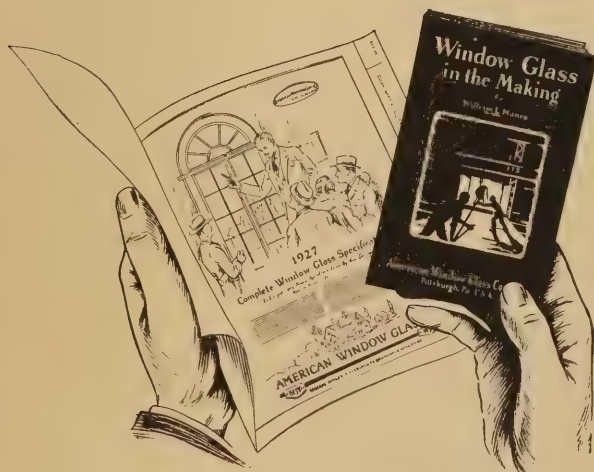
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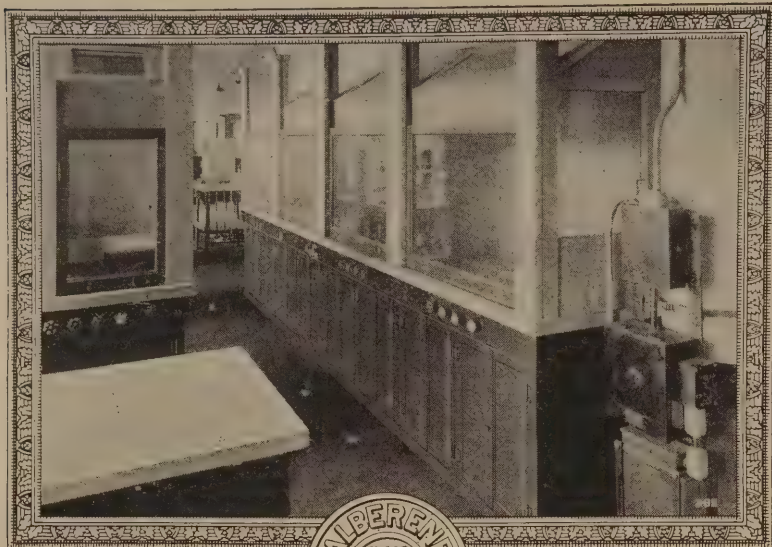
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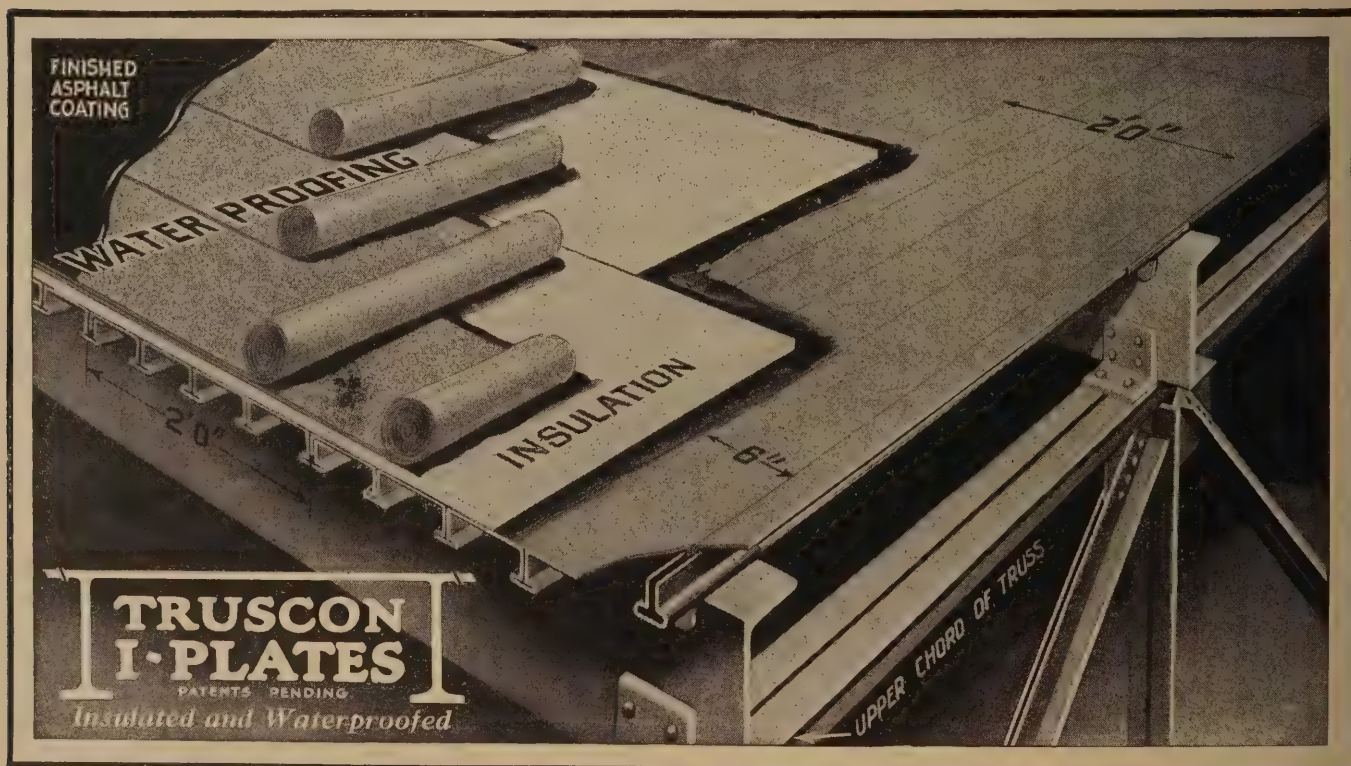
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SAFE against heat, fumes, vapors, acids, alkalis—safe against leakage through open joints—safe against every deteriorating influence—these are the big facts about Alberene Stone Fume Hoods. This natural stone was ages in the making. It has survived the fiery tests in Nature's laboratory, where it acquired the qualities which make it time-and-depreciation-proof. It is the material to use for permanence in fixed laboratory equipment.

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STEELDECK ROOFS

NOT OVER **5** lbs PER SQ. FOOT

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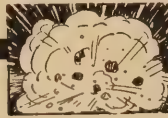
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CUTTING FLAME



EXPLOSIVES

Here is the Mat which embedded in Concrete, is Drill Proof, Flame Proof and Resists Explosives

When You Specify "3 Point Protection"—

Here's what goes into the vault walls, into the roof and into the floor:

A mat of heavy steel mesh, resistant to (1) drill, (2) cutting flame, (3) explosives. These three most vital features of protection—combined only in Steelcrete Armor Mat.

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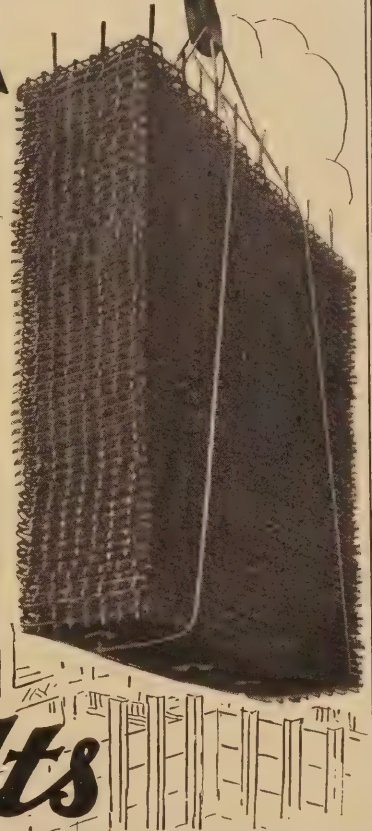
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THE EASY working quality, characteristic of Higgins' Drawing Board and Library Paste for many years, is now re-established due to the fact that we are again able to obtain the essential raw materials.

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this is not necessary. All of the original adhesive tenacity is retained. Higgins' American Drawing Inks are also manufactured in accordance with the original formula—the formula which created the first liquid India Ink, and established, in 1880, today's standard drawing ink. Blacks, White and 11 brilliant colors.

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Brickwork finished with Cabot's Double-White
Dean & Dean, Architects, Sacramento, Cal.

Artistic and Unusual Architectural Effects

are constantly being achieved, with almost startling simplicity, by using Cabot's Old Virginia White or Cabot's Double-White on brickwork and stucco. The textural quality of the brickwork is not impaired, because there is no glossy or "painty" effect. The result is a soft and brilliant white—as fresh and bright and cool as new whitewash and as durable as paint—which brings out all of the architectural detail with striking success.

Cabot's

DOUBLE-WHITE

It is not a paint, but a colloidal compound that is finer than paint, has far greater penetrating and waterproofing powers, and is so much more opaque that two coats will cover any surface as completely as three coats of ordinary white paint.

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for the White "Stain" Effect
on Shingles, Stucco and Stone.

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Cabot's Creosote Shingle Stain

for harmonious color-combinations and thorough wood-preservation.

Samples and full information on request.

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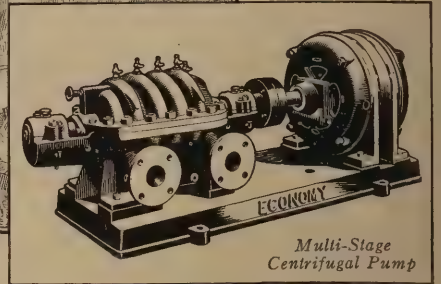
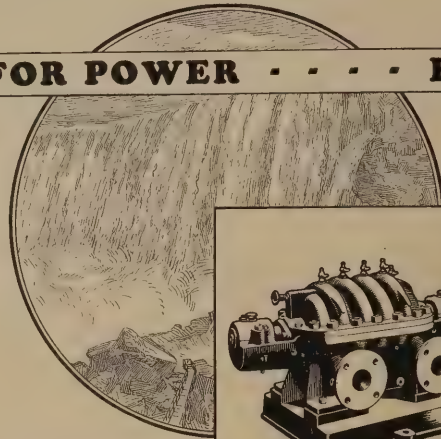
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The average flow of water over the U.S. and Canadian Falls of Niagara is estimated at 222,400 cubic feet per second, a potential horse power of approximately 4,900,000.

Multi-Stage
Centrifugal Pump

There Is Economy Only in Correct Capacity

YOU are right to expect the maximum efficiency in a pump. But only by study of pipe line characteristics and other losses can high total efficiency be obtained.

An efficient pump may save fuel for instance, only to waste it in its own operation because of excess capacity. This would be false economy. True economy is in correct application. To this end, Economy's makers offer the assistance of Economy engineers. Their cooperation with your engineers will insure efficient pumping.

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See illustration above

Suitable for high pressure house supply in tall buildings, for hydraulic elevator service, high pressure boiler feeding, brine circulation, etc. Designed to operate against pressures from 75 to 350 lbs. per square inch at standard motor and steam turbine speeds.

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Representatives in Principal Cities—Telephone & address under Economy Pumping Machinery Co.

Economy Pumps

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The **PARAMOUNT THEATRE**
in New York City, designed by C. W. & Geo. L. Rapp, Architects, while in continuous use for many hours each day, never appears other than fresh and clean. A Spencer Central Vacuum Cleaning System provides the means of cleaning this theatre quickly and thoroughly.

Patrons are attracted to a theatre not only by the entertainment it offers but also by the comforts it provides. Cleanliness is an important asset to any theatre.

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DUBOIS Woven Wood Fence

THE problem on this Southampton estate was to find something that would relieve the severity of the sandy shore land, and blend readily with the white stucco buildings.

That Dubois provided the solution may be seen at a glance, and the more the situation is studied, the more the versatile nature of Dubois is realized.

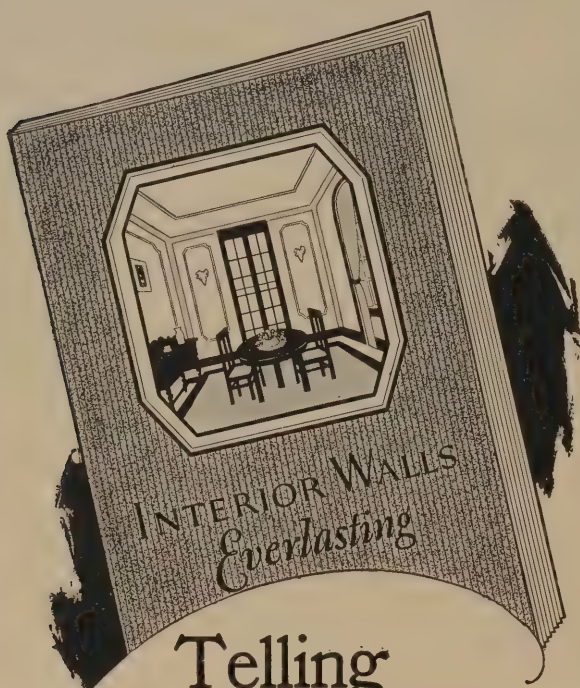
It has charm, and great strength as well. It graces a lovely garden, yet it can perform the most rugged type of duty. It is highly individual, and yet there never was a fence that could give more all-round service, for country or town, at so reasonable a figure.

Prices and Erection Data may be had upon request from Robert C. Reeves Co., 187 Water St., New York.



Made in France of split, live chestnut saplings bound to horizontal braces with heavy, rust-proof Copperweld wire. Comes in 5-ft. sections, in two heights, 4 ft. 11 in. and 6 ft. 6 in.

Photo by Amemya.



Telling Home Builders Important Facts About Interior Walls

THERE was a time when the interior walls of the home were looked upon as nothing more than lath and plaster—a method of dividing one room from another.

Today, the attainment of beauty, permanency, and lasting satisfaction in all interior walls is a significant development in keeping with the progress of better home building.

To further stimulate this increasing interest, we have prepared an illustrated book entitled "Interior Walls Everlasting"—pictured above. To obtain its widest possible distribution to prospective home builders, we began advertising it in the June magazines devoted to the home.

This is a booklet that will interest every home lover who contemplates building or refinishing. It may already be in the hands of some of your clients. Would you like to have a copy?

Best Bros. Keene's Cement Co.

1060 W. 2nd Ave., Medicine Lodge, Kans.



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Please send me, free, a copy of your illustrated book, "Interior Walls Everlasting"

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Address
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An Important Question

Into the mind of a thoughtful builder about to use roof trusses for a building of wide span enters the question: Are the trusses going to be strong enough to carry maximum wind and snow loads safely?

Most any make of truss might carry a roof; but there is a satisfaction in using roof trusses that are designed correctly and that are known to be safe.

Three Standard Types of Wood Roof Trusses—

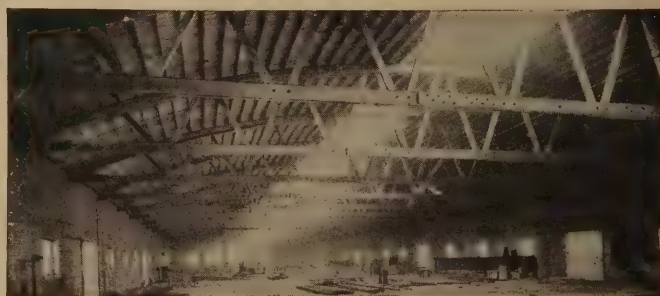
"Bowstring Trusses" "Lattis-Trusses"
"Factory-Built Trusses"

(Glued, nailed and bolted upper chords)

McKeown Bros. Company

112 West Adams Street
CHICAGO

21 East 40th Street
NEW YORK





Clay wall coping
adds finish and
permanence to
any brick wall.

CLAY PRODUCTS ASSOCIATION
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VITRIFIED *Salt Glazed* CLAY
Wall Coping

AA6-20 Gray

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TUXEDO MEMORIAL HOSPITAL BYRON BANCROFT SMITH, Architect
Sedgwick Hospital Elevator and Dumb Waiter Installed

HOSPITAL ELEVATORS

SEDGWICK Hand Power Hospital Elevators are suitable for service in many hospitals, sanatoriums, clinics, and similar institutions.

Careful adjustment of counterweight to balance car and average load limits the use of these elevators to the following six conditions:

- 1st—Raising the car with the average load.
- 2nd—Lowering the car with the average load.
- 3rd—Raising the car with less than the average load.
- 4th—Lowering the car with less than the average load.
- 5th—Raising the car with more than the average load.
- 6th—Lowering the car with more than the average load.

Under the first two conditions the operator need exert only enough effort to overcome inertia and friction, which in the Sedgwick outfits are practically negligible.

Under conditions 3 and 6 the operator merely releases the brake and permits the car to move by gravity, maintaining control by means of the brake.

Under conditions 4 and 5 the operator exerts sufficient power (proportionate to gearing, which is about 15 to 1) to lift the difference between the weight of the car and load and the counterweight.

In only two conditions out of six under which the elevator is used is power required to be exerted by the operator, and with Sedgwick outfits this makes no unreasonable demand upon the operator.

THE SEDGWICK ARCHITECTS SERVICE DEPARTMENT is maintained to assist you in the proper selection and writing of specifications for Hand Power Dumb Waiter and Elevator equipment for all purposes.

Write for New Catalog

SEDGWICK MACHINE WORKS
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Manufacturers of "The Invalid Elevator,"
Freight Elevators, Fuel Lifts, Trunk Lifts,
Ash Hoists, Gravity Drops, etc.

A NEW and Important Note of Comfort and Decoration for the Home



THERMAINO

Eclipses Bare Radiators



Blends Perfectly Into Every Decorative Scheme for the Home

BECAUSE of its many superior qualities, THERMAINO is rapidly gaining recognition from progressive ARCHITECTS, BUILDERS and DECORATORS. The outstanding feature is a new and exclusive arrangement of grilles which greatly increases the heating efficiency. A recently added feature is the AIR-INSULATED TOP which does away with the inefficient asbestos lining and assures proper insulation against the heat from the radiator. THERMAINO tops are comfortably cool at all times.

This splendid combination of healthful WARMTH, PROTECTION and BEAUTY totally eclipses the ugly effect of bare radiators.

THE HART & COOLEY MFG. CO.
Corbin St., New Britain, Conn.

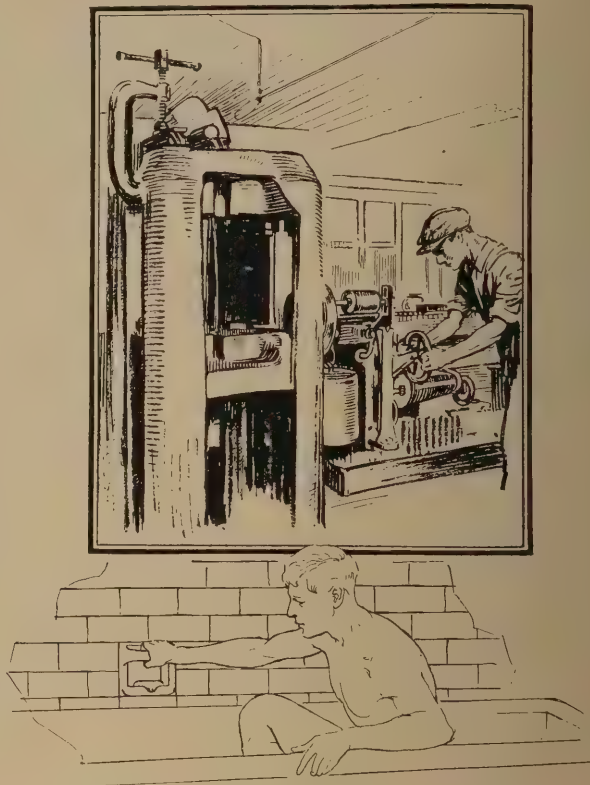
Gentlemen:

Please send me illustrated folder of Thermo Maino designs and details of construction.

Name _____

Address _____

Tensile strength testing machine
in Laboratory



A Giant is Safe with UNITY Fixtures

The superior strength of Chinawyte Unity bathroom fixtures, due to their one piece construction, has been definitely established by a prominent engineering authority.

Tested to destruction on a tensile testing machine Unity fixtures withstood several hundred pounds greater pressure than any other fixture. Pressure was applied in a manner comparable to a man pulling himself out of a tub.

This extra factor of safety is present in every Unity recess type fixture. Perhaps that is why so many architects, builders and owners of apartments, hotels and private residences specify Unity outright.

Further significance is attached to this test by the fact that the Balmer Company has never been called on to replace a Unity fixture broken in use.

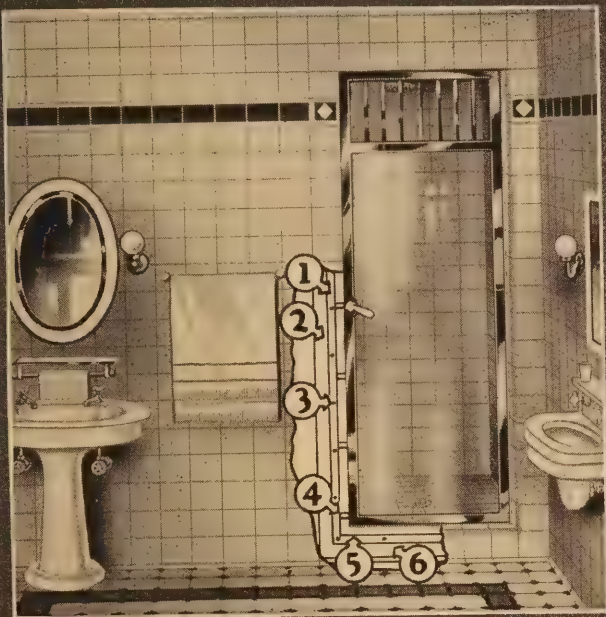
You will be interested in studying this test. Write for a copy. The J. H. Balmer Company, 259-267 Plane Street, Newark, N. J.

Chinawyte Unity recess fixtures and Easy-Set detachable fixtures are available in white and in several beautiful colors.



UNITY

CHINAWYTE RECESS
BATHROOM FIXTURES



- 1-5—Angle Steel Buck 2—Wood studding
3—Nails to hold buck 6—Wood cross brace
4—Ferrules for screws for jambs

The ZAHNER Shower Bath Door

FORTUNATE indeed, is the home that has a built-in shower stall, enclosed and beautified with the dignified **ZAHNER Shower Bath Door**. During the hot weather months when the entire family spend a major part of their time in out-door sports and recreation, the shower bath brings an added source of satisfaction in the refreshing luxury and comfort that it provides.

The **ZAHNER Shower Bath Door** is the result of a universal demand. It takes the place of the impractical and unsanitary canvas or rubber curtain that cracked, shrank and kept out the light as well as being unsightly. Because it is practical and modern, your client will appreciate your thoughtfulness in specifying The **ZAHNER Shower Bath Door**.

The **ZAHNER Shower Bath Door** is handsomely fashioned of extruded bronze, silver nickel plated, making it rust and corrosion proof. There are no wood cores to warp. All joints are welded. All Doors are equipped with the highest quality, clear polished glass panels, set in rubber, with condensation gutter and adjustable gasket across bottom.

With The **ZAHNER Shower Bath Door** is furnished a patented Steel Buck (see key above for detailed explanation of the Steel Buck feature) made of 1½ inch steel angle, braced and welded solid. Fastened securely to the studding before tile is set, it becomes a part of the wall. Result—the Buck feature insures a permanent, proper size opening to accept door—that will never warp or shrink.

A full length piano hinge is used to hang door to angle Steel Buck. Anyone with a screwdriver can permanently hang it in 15 minutes. The **ZAHNER Door** will render lifetime service and satisfaction.

ZAHNER MANUFACTURING CO.

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**Plumbers ~ Supply Houses
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Write for Dealer Prices & Literature**



A new IROQUOIS —quiet as ever!

Electric refrigeration is an actual necessity in apartment houses—and the demand is for a machine that is quiet—there must be no noise to annoy the tenants or the occupants of adjoining apartments.

You can safely specify the quiet Iroquois. It is as quiet as the gentle whispering of the woodland pines, and it is amazingly efficient—it produces cold, dry air, like the crisp dry cold of a frosty night. And the Iroquois is so compact and so simple in construction. It works under low pressure, takes less current to operate, and requires a minimum of servicing.

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THE IROQUOIS ELECTRIC REFRIGERATION COMPANY

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Associate of The Barber Asphalt Company

IROQUOIS
REG. U.S. PAT. OFF.

The quiet electric
REFRIGERATION

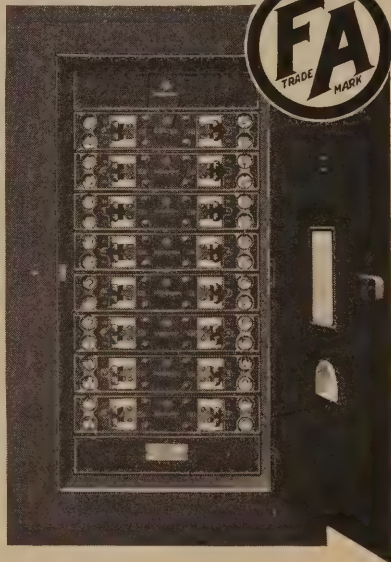




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There is a capable panelboard man in each **FA** District Office to give expert advice at the time you need it most.

The **FA** Catalog is designed to give you all the information you require on ordinary jobs, laid out to be easily and quickly read. When the occasion arises, there is a service man at your call without delay, cost or obligation. And he is backed up by the most complete line of panelboards ever built.



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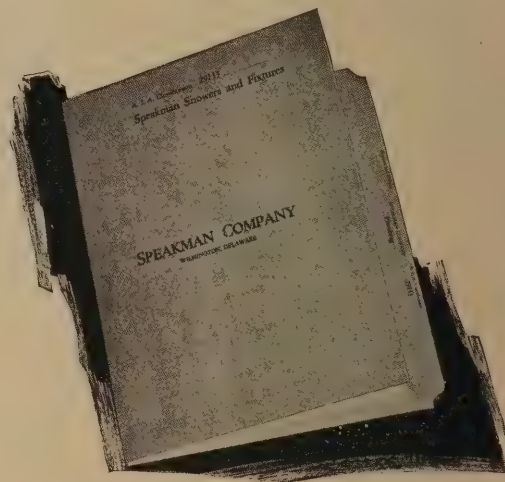
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SPEAKMAN SHOWERS
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Now, a Light Electric Elevator for every class of retail store, warehouses, hospitals, apartments, bakeries, mortuaries, office buildings, factories and other institutions where fast, safe, low cost elevator service is an absolute business necessity.

It meets a need for a safe, practical, inexpensive outfit for smaller business institutions.

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The point is we ought to get together.

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Established 1860

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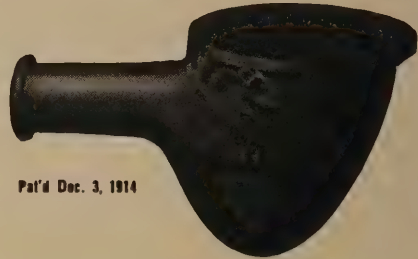
NEW YORK

70-72 Reade St.

Branch: 1317-1319 Pine St.

St. Louis

SIGNET Back Water Trap FLOOR DRAINS



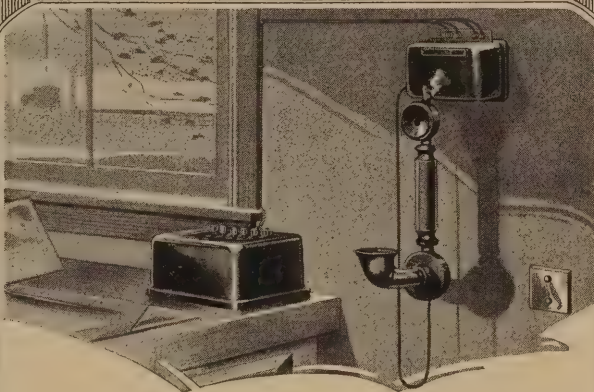
Pat'd Dec. 3, 1914

All-metal construction—no rubber nor composition gaskets to wear out—no floating balls. Trap valve has metal-on-metal seat. Opens by positive pressure—closes by gravity. Leakage impossible.

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Crampton-Farley Brass Co. Kansas City, Mo.

*Specifications in The American Architect Specification Manual.
Details in Sweet's Catalog.*



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Easy to operate, it saves everybody's time, cuts down useless running around, speeds production and increases efficiency.

Made by a firm with more than thirty years experience in the making of voice transmission and voice reception apparatus.

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DAYTON-DOWD CENTRIFUGAL PUMPS

REPRESENTATIVE USERS

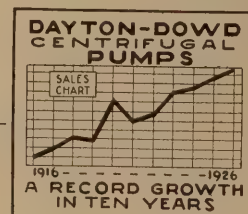
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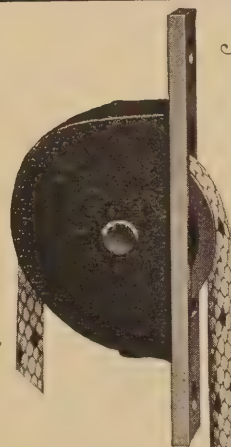
ROYAL INSURANCE CO., NEW YORK
Starrett & Van Vleck, Architects

Bronzalun elevator door thresholds harmonize with architectural features, eliminate slipping hazard and wear indefinitely.

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A Specification

Chart showing at a glance the correct sizes of cords and pulleys to use with different sizes of windows will be furnished for the asking—also samples.



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Sash Cord insures smooth, quiet, and continuous operation of double hung sash.

The Colored Spots are a trade mark which identifies the durable, dependable solid braided cotton cord for you anywhere and protects your specifications.

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Established 1897

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Maximum Protection Against Fire, Theft, Weather—

is found in Kinnear Steel Rolling Doors. They are strongly constructed of interlocking, fire-resisting, steel slats. The channel shaped groove in which they run offers no opening to wind or storm.

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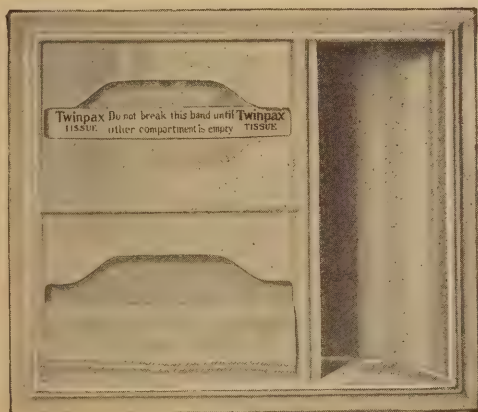


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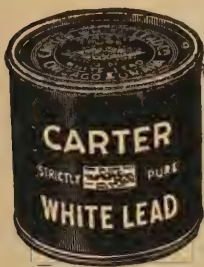
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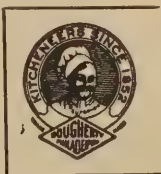
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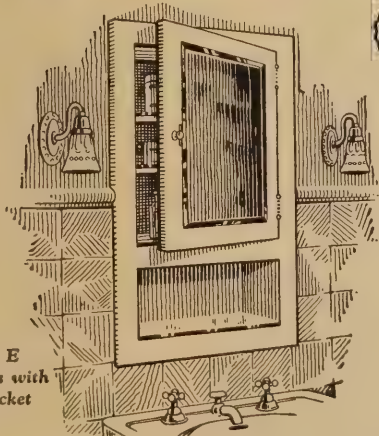
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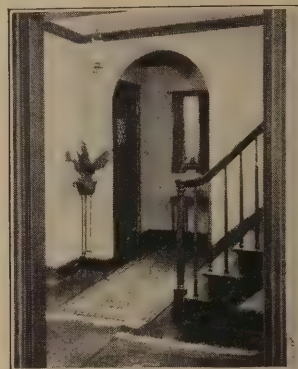
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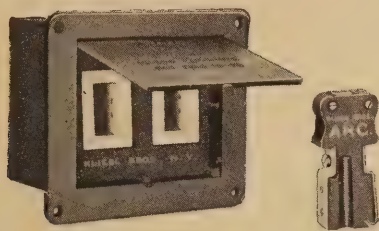
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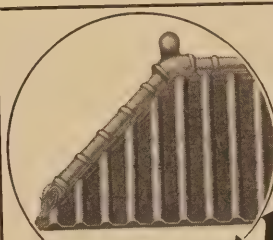
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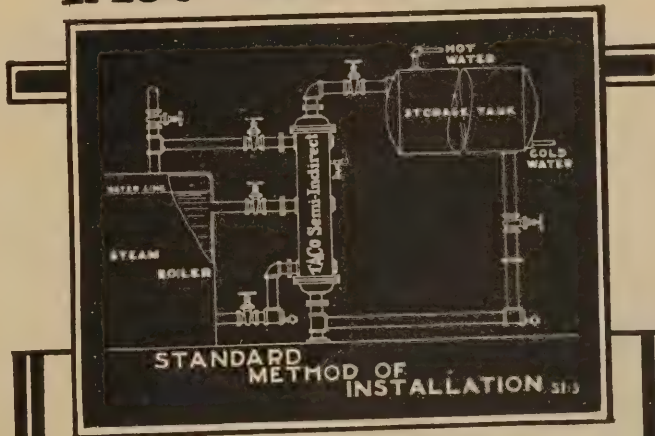
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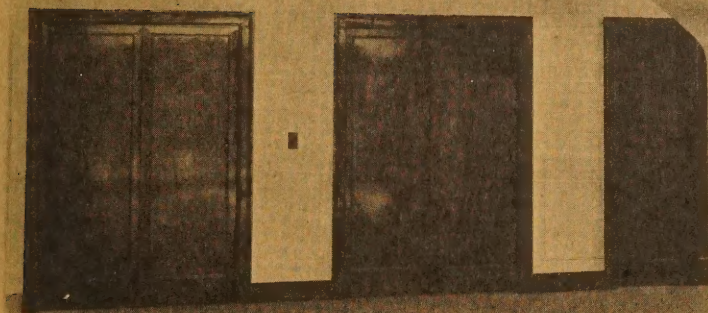
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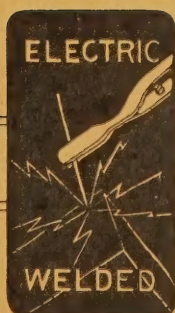
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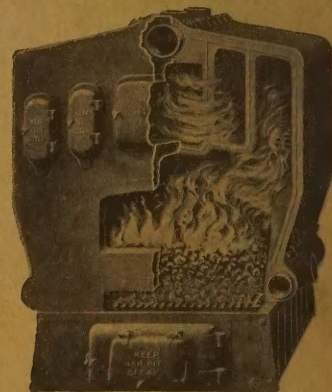
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